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Dec 76

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EPA-600/9-76-013d

ABSTRACTS

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TITLES

ORGANIZATIONS

AUTHORS

SUBJECT AREAS

EXTRAMURAL NUMBERS

ORD PUBLICATIONS SUMMARY

DECEMBER 1976

U. S. ENVIRONMENTAL PROTECTION AGENCY
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Cincinnati, Ohio 45268

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16. ABSTRACT

This summary is a current listing of the Office of Research and Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover.

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ORD PUBLICATIONS SUMMARY

by

TECHNICAL INFORMATION OPERATIONS STAFF

U.S. Environmental Protection Agency
Office of Research and Development
Cincinnati, Ohio 45268

ATTENTION

On June 29, 1975, the Office of Research and Development (ORD) was officially reorganized. One of the major impacts of this reorganization was to eliminate the former National Environmental Research Center (NERC) management structure for field operation and establish 15 individual laboratories which report directly to headquarters. As a result, the report number prefixes formerly associated with the NERC's have been replaced by one prefix (600) which represents all of ORD technical reports. Any questions arising from this report number change may be directed to the Technical Information Operations Staff, Cincinnati, Ohio 45268, telephone 513/684-7281.

SEE INSIDE OF FRONT COVER FOR "HOW TO ORDER" REPORTS

FOREWORD

This is the eighth and last issue of the Office of Research and Development's (ORD's) quarterly **ORD PUBLICATIONS SUMMARY**. This final **SUMMARY** is a comprehensive listing of ORD and its predecessors' final reports on in-house, grant, contract, and interagency projects published from 1967 through 1976. An abstracts section to provide brief abstracts of recently printed reports is included, as well as cumulative indices by title, subject area, performing organization, author, report number, and grant, contract, or interagency agreement number. Instructions for ordering copies of reports are on the inside front cover.

Although this is the last comprehensive listing published by ORD, those on the mailing list for the **SUMMARY** will receive the new quarterly publication, **EPA REPORTS BIBLIOGRAPHY SUPPLEMENT**. Each **SUPPLEMENT** will contain a listing of technical reports and journal articles published during the current quarter not only by ORD but by the entire EPA. Each **Supplement** will contain a current abstracts section, a keyword index, and various other indices. Each year the fourth quarterly issue will be a cumulative annual bibliography.

This Office believes that one document which lists all EPA publications will better serve the user than a document which lists only a single office's publications. Users' comments received concerning the **SUMMARY** were taken into consideration in this decision, and it is believed that the new **EPA REPORTS BIBLIOGRAPHY SUPPLEMENT** will prove to be a more useful research aid. Your comments will be appreciated.

WK Talley

Wilson K. Talley
Assistant Administrator for
Research and Development

SERIES DESCRIPTION

The U.S. Environmental Protection Agency (EPA) was formed in late 1970 from programs in several executive agencies, i.e., the Department of Health, Education, and Welfare (air pollution, solid waste, radiation, water hygiene, and noise), the Department of the Interior (water pollution), and the Department of Agriculture (pesticide regulation). In July 1972, EPA's Office of Research and Monitoring (now Office of Research and Development, ORD) established an office-wide series of designations within which each research report would be published. The series can be used to describe the general thrust of EPA research and development and also to aid in identifying the use for each report. The present numbering system and cover color for each report is keyed to this Series Description.

SERIES 1 – ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

Assigned to Series 1 are projects and studies relating to human tolerances for harmful substances or conditions, generally assessed from a health effects viewpoint. In addition to toxicology and other medical specialties, study areas include physiological or psychological studies, and the development of biomedical instrumentation.

SERIES 2 – ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

Series 2 includes research performed to develop and demonstrate instrumentation, equipment, and methodology to repair or prevent environmental degradation from point and nonpoint sources of pollution. This work provides the new or improved technology necessary to control and treat pollution sources to meet environmental quality standards.

SERIES 3 – ECOLOGICAL RESEARCH (light green covers)

Series 3 includes investigations of the long- and short-term effects of pollutants on plants, animals, and materials. Research includes formation, transport, and pathway studies to determine the fate and effects of pollutants to provide the basis for setting standards to minimize pollution effects on aquatic, terrestrial, and atmospheric environments.

SERIES 4 – ENVIRONMENTAL MONITORING (gray covers)

Research conducted to develop new or improved methods, instrumentation, and quality assurance techniques and procedures to accurately identify and quantify environmental pollutants is included in Series 4. Also included are the studies to determine the ambient concentration of pollutants or the variance of pollutants as a function of time and/or meteorological factors.

SERIES 5 – SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

Series 5 reports document research and development efforts that are related to the socioeconomic impacts of pollution and its abatement. They also cover the potential to use institutional management and regulation action as tools to reduce pollution. Specific areas of investigation might include land use alternatives, economic impact of regulation, planning methods for state and local government offices responsible for pollution abatement, and techniques for determining cost-benefit ratios for alternative pollution abatement options.

SERIES 6 – SCIENTIFIC AND TECHNICAL ASSESSMENT REPORTS (STAR) (dark blue covers)

In Series 6 are assessments of the available scientific and technical knowledge on major pollutants that would be helpful in regulatory decision making or evaluating a major area of completed study. The serie presents objective evaluations of existing knowledge— evaluations that point out its completeness, the validity of its data base and the uncertainties and gaps that may exist. Most reports are multimedia in scope focusing on a single medium only to the extent warranted.

SERIES 7 – INTERAGENCY ENERGY-ENVIRONMENT RESEARCH AND DEVELOPMENT (dark green)

Reports in this series result from the effort funded under the 17-agency Federal Energy-Environmental Research and Development Program. These studies relate to EPA's mission to protect the public health and welfare from adverse effects of pollutants associated with energy systems. The goal of the Program is to assure the rapid development of domestic energy supplies in an environmentally-compatible manner by providing the necessary environmental data and control technology. Investigations include analyses of the transport of energy-related pollutants and their health and ecological effects; assessments and development of control technologies for energy systems; and integrated assessments of a wide range of energy-related environmental issues.

SERIES 8 – "SPECIAL" REPORTS (covers of varying design)

This series is reserved for reports which are intended to meet the technical information needs of specifically targeted user groups. Reports in this series include Problem Oriented Reports, Research Application Reports, and Executive Summary Documents. Typical examples of these reports include state-of-the-art analyses, technology assessments, reports on the results of major research and development efforts, desgign manuals, user manuals, etc.

SERIES 9 – MISCELLANEOUS (covers of various designs)

Series 9 is used for all reports issued by ORD not applicable to one of the series described above.

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USERS' GUIDE

This volume contains an abstract section, a bibliographic section, and six indices. Within each index, reports are cross-referenced to the Bibliographic Section by report number. The bibliographic section and indices are cumulative so you need only refer to the most recent issue for ordering information

NEW REPORT ABSTRACTS SECTION

This section contains a brief abstract of each recently printed report. An abstract will appear in only one issue so if you need copies of abstracts for reference purposes, you must retain each issue of the **Summary**. If no source is shown in the Bibliographic Section, the report is not yet available. Future issues of the **Summary** will note those reports for which an abstract has been published and indicate the issue in which the abstract appeared; e.g., ---Abstracted 600/9–74–001a---.

BIBLIOGRAPHIC SECTION

In the Bibliographic Section is a numerical listing of reports published since July 1973. The source of each report follows the bibliographic entry, and how to order instructions are given on the inside front cover.

TITLE INDEX

All reports are listed alphabetically by title; "A," "An," and "The" have been dropped from the beginnings of titles.

CURRENT SUBJECT AREA INDEX

This Current Subject Area Index provides a broad subject-matter index; each report is listed once, alphabetically by title, under the Subject Area concerned with the report's research. Reports not falling within a specific area such as bibliographies or annual reports, are listed under Miscellaneous Reports.

PERFORMING ORGANIZATION INDEX

This is an alphabetical listing of the organizations which conducted the research reported on in these reports. For grants or contracts, the organization is the grantee or contractor; for in-house reports, the organization is the EPA laboratory or office.

PERSONAL AUTHOR INDEX

The Personal Author Index lists alphabetically all authors of reports contained in the Bibliographic Section.

GRANT, CONTRACT, INTERAGENCY AGREEMENT NUMBER INDEX

This index contains a listing of ORD Contract, Grant, and Interagency Agreement numbers from July 1973 – December 1976 for which a final report has been produced. For each number listed the applicable report number is cross-referenced.

NEW REPORT ABSTRACTS SECTION

600/J-76-001 **PE 1BD612** **IN-HOUSE PROJECT**

Trace Organic Components as Fingerprints in Gas Chromatographic Identification of Spilled Asphalts BY F. K. Kawahara, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

The development and testing of a new concept for oil identification made possible the successful application of a novel method of using weak acids to fingerprint heavy petroleum oils, to trace them to the source. A new derivative preparation followed by electron capture detection-gas chromatography was used to exclude measurement of unwanted impurities that usually plague flame ionization detection. In addition it was found that the weathering of asphalts may be simulated by the simple process of vigorous water washing. Aromatics other than those responsible for infrared absorption at 810 cm^{-1} appear to be lost in weathering. EPA CONTACT: Kawahara, F. K. 8-684-7313

600/J-76-003 **PE 1CC614** **IN-HOUSE PROJECT**

Disinfection of New Water Mains BY R. W. Buelow, R. H. Taylor, E. E. Geldreich, A. Goodenkauf, L. Wilwerding, F. Holdren, M. Hutchinson, and I. H. Nelson, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

The "AWWA Standard for Disinfecting Water Mains" (AWWA C601-68) has fallen into disuse by a number of water utilities because of repeated bacteriological failures following initial disinfection with recommended high-dose chlorination. Other methods of disinfection, including the use of potassium permanganate and copper sulfate, do not alleviate this problem. Physical cleanliness of new mains is of primary importance and may result in successful disinfection with the low free-chlorine residuals in distribution-line water. EPA CONTACT: Buelow, R. W. 8-684-7236

600/J-76-004 **PE 1HD621** **IN-HOUSE PROJECT**

Sequential Radiochemical Analysis for Ruthenium, Strontium and Cesium in Environmental Air BY H. L. Krieger, E. R. Martin, and G. W. Frishkorn, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

In routine surveillance operations, the radionuclide measurement of air discharged from an operating nuclear facility involves the entrainment of radionuclides on selective filter or absorptive media, and the determination of their gross beta activity. However, a more sensitive technique is required when specific analysis is desired for valid assessment of environmental radiation exposure, particularly when the gross beta activity levels are below 100 fCi/m^3. For measuring environmental levels of ^{106}Ru in air samples on glass fiber filters, a radiochemical procedure has been developed, tested and evaluated. The method which involves digestion, distillation, and precipitation to separate and purify the radioruthenium has been employed in the analysis of air samples over the past year and a half. The method has been subsequently modified so that ruthenium, strontium and cesium can be measured sequentially on a single air filter. Minimum detection limits (3 sigma counting error) have averaged <0.02 fCi/m^3 for ^{106}Ru and <0.01 fCi/m^3 for ^{137}Cs and $^{89}/^{90}Sr$; chemical yields have been 75, 80 and 75% respectively. EPA CONTACT: Krieger, H. L. 8-684-7348

600/J-76-005 **PE 1BC611** **IN-HOUSE PROJECT**

Single-Stage Nitrification-Denitrification BY D. F. Bishop, J. A. Heidman, and J. B. Stamberg, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

The removal of 75-84% of the nitrogen from primary wastewaters was achieved in a single stage activated sludge process. The two-pass reactor was operated with a food to mass ratio (F/M) of approximately 0.1 gm BOD_5/day/gm MLVSS. The air was applied on a 30-minute cycle first to one reactor pass then to the other pass. Mechanical mixers suspended the mixed liquor solids when the air was not applied. The D.O. concentration varied from 0.0 mg/1 without air to 2-3 mg/1 during aeration. In June, with a 9-hour detention time in the reactor, the residual pollutant concentrations averaged 23 mg/1 of COD (90% removal), 3.8 mg/1 of total nitrogen (84% removal), and 7.8 mg/1 of suspended solids (93% removal). In February, with a 12-hour reactor detention time, the residual pollutants averaged 25 mg/1 of COD (89% removal), 6.0 mg/1 of Total N (75% removal), and 14 mg/1 of suspended solids (87% removal). Since the nitrate from nitrification was used to remove BOD_5 from the wastewater, the process advantages for single state nitrification-denitrification included the reduction in the amount of air needed to achieve BOD_5 removal and nitrification; the minimizing of supplemental organic carbon sources for denitrification; and the elimination of clarifiers in staged nitrification-denitrification. EPA CONTACT: Bishop, D. F. 8-684-7628

600/J-76-006 **PE 1BD612** **IN-HOUSE PROJECT**

Systems Chemical Analysis of Petroleum Pollutants BY F. K. Kawahara, and Y. Y. Yang, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

With the application of discriminant analysis of relevant infrared spectrophotometric data, 99% of numerous known and unknown oil samples have been correctly characterized and identified via a two-step procedure. In step one, the unknown is characterized by one of the linear discriminant functions calibrated with known number 6 oils, asphalts, or crude oil residues. In step two, the characterized unknown is finally identified to a source by using the appropriated and calibrated set of LDF's for one of these three groups selected in step one. EPA CONTACT: Kawahara, F. K. 8-684-7313

NEW REPORT ABSTRACTS SECTION

600/J-76-007 PE 1BA609 IN-HOUSE PROJECT

Light-Induced Transformations of Methoxychlor in Aquatic Systems BY R. G. Zepp, N. L. Wolfe, J. A. Gordon, and R. C. Fischer, Environmental Research Laboratory, EPA Athens, GA

The light-induced decomposition of methoxychlor was studied in hexane, distilled water, and several notutal water samples. Product studies indicate that the primary photochemical process for methoxychlor is the same as that for DDT—cleavage of one of its carbon-chlorine bonds to form free-radical intermediates. Subsequent reactions of these intermediates with themselves, oxygen, or the solvent determine the nature of products. In distilled water, the major product is 1,1-bis (*p*-methoxyphenyl)-2,2-dichloroethylene (DMDE), a DDE analogue. A procedure was developed for computing the direct photolysis rates of pesticides in the aquatic environment. Using this procedure, we estimated that the direct photolysis half-lives of methoxychlor and DDT near the surface of a water body are 4.5 months and greater than 150 years, respectively. Direct photolysis of both DMDE and DDE by sunlight was found to be very rapid. The photolysis rate of methoxychlor under sunlight was found to be much more rapid in several natural water samples (halflives of 2 to 5 h) than in distilled water. These results indicate that photochemical processes other than direct photolysis cause rapid degradation of methoxychlor in some aquatic environments. EPA CONTACT: Zepp, R. G.

600/J-76-008 PE 1BA608 IN-HOUSE PROJECT

Acute and Chronic Toxicity of Copper to the Fathead Minnow in a Surface Water of Variable Quality BY W. A. Brungs, J. R. Geckler, and M. Gast, Environmental Research Laboratory, EPA Duluth, MN

Acute and chronic toxicity tests conducted with the fathead minnow and copper used as the source of dilution water a natural stream to which a sewage treatment plant upstream contributed a variety of materials known to affect acute copper toxicity. Nominal total copper 96-h median tolerance limit values (96-h TL50), determined with static testing procedures, ranged from 1.6 to 21 mg 1^{-1}. Dissolved copper 96-h TL50 values ranged from 0.60 to 0.98 mg 1^{-1}. The maximim acceptable toxicant concentration (MATC) based on survival, growth, reproduction, and hatchability of eggs was between 0.066 and 0.118 mg 1^{-1}. EPA CONTACT: Brungs, W. A. 8-783-9546

600/J-76-009 PE 1BA608 IN-HOUSE PROJECT

Effects of Pollution on Freshwater Fish BY J. M. McKim, R. L. Anderson, D. A. Benoit, R. L. Spehar, and G. N. Stokes, Environmental Research Laboratory, EPA Duluth, MN

An extensive literature review is presented which is concerned with the effects of pollutants (metals, pesticides, detergents, industrial wastes) on freshwater fish; chemical and biological methods for identifying and determining the effects of such pollutants; and the effects of the water quality parameters salinity, oxygen, and pH on freshwater fish. EPA CONTACT: McKim, J. M. 8-783-9567

600/J-76-010 PE 1BA608 IN-HOUSE PROJECT

Effects of Selected Water Toxicants on the In Vitro Activity of Fish Carbonic Anhydrase BY G. M. Christensen, and J. H. Tucker, Environmental Research Laboratory, EPA Duluth, MN

Carbonic anhydrase (CA, carbonate hydro-lyase EC 4.2.1.1.) from lysed red blood cells of the channel catfish (*Ictalurus punctatus*) was studied to determine physico-chemical kinetic properties and relative sensitivity to 56 chemicals of significance in water quality research. In general, enzyme activity was strongly reduced by heavy metal inorganic cations; less strongly by organometallic cations, some anions, and certain pesticides; and weakly inhibited by light metal cations and organometallic and organic compounds. Dose-response curves were qualitatively similar in most cases. EPA CONTACT: Christensen, G. M. 8-783-9556

600/J-76-011 PE 1BA608 IN-HOUSE PROJECT

Growth and Survival of Young-of-the-Year Emerald Shiners (*Notropis atherinoides*) at Different Temperatures BY J. H. McCormick, and C. F. Kleiner, Environmental Research Laboratory, EPA Duluth, MN

Young-of-the-year emerald shiners (*Notropis atherinoides*) were exposed to mean constant temperatures of 6.9, 11.9, 16.0, 19.8, 24.0, 26.9, 28.9, 31.0, 32.8, 34.9, and 36.7°C for 6 wk. Maximum rates of growth and net biomass gain occurred at 28.9°C but these rates were not statistically greater ($P > 0.05$) than those at 26.9 and 24.0°C. Death rates were low at test temperatures up to 32.8°C but high at 34.9°C and above. The upper incipient 7-day TL50 was estimated to be 35.2. The 1-day TL50 of fish taken from the natural habitat, where peak daily temperatures ranged between 20 and 25°C during the preceding few days, was 32.6°C. Natural production of this important forage species would probably be best where temperatures are at least 19°C but not above 29°C for extended periods. EPA CONTACT: McCormick, J. H. 8-783-9530

NEW REPORT ABSTRACTS SECTION

600/J-76–012 PE 1BA608 IN-HOUSE PROJECT

Survival of Daphnia, Crayfish, and Stoneflies AirSupersaturated Water BY A. V. Nebeker, Environmental Research Laboratory, EPA Corvallis, OR

Daphnia magna, the crayfish *Pacifastacus leniusculus*, and nymphs of the stoneflies, *Acroneuria californica*, *A. pacifica*, and *Pteronarcys californica* were tested in the laboratory to determine their survival in different concentrations of air-supersaturated water. The mean 96-h LC50 valve (lethal concentration, 50% mortality) for *D. magna* was 122.5% total air saturation. The 7-day LC50 was 120% and the 10-day LC50 was 117.5%. The mean 96-h LC50 for crayfish was 147% total air saturation. The 7-day LC50 was 145% and the 10-day LC50 was 133%. The 10-day EC50 values (effective concentration, 50% immobilized) for stoneflies were 135% for *A. californica* and greater than 125% for *A. pacifica* and *P. californica* Bubbles (emboli) were observed in body fluids and tissues, and general body distention occurred before death in *Daphnia*, crayfish, and stoneflies. Lethal threshold concentrations for *Daphnia* and crayfish were near 111 and 127%, respectively. EPA CONTACT: Nebeker, A. V. 8–420–4735

600/J-76–013 PE 1BA608 IN-HOUSE PROJECT

Toxic Effects of Hexavalent Chromium on Brook Trout (*Salvelinus Fontinalis*) and Rainbow Trout (*Salmo gairdneri*) BY D. A. Benoit, Environmental Research Laboratory, EPA Duluth, MN

Exposing brook trout to various concentrations of chromium [Cr(VI)] for up to 22 months (including reproduction) significantly increased alevin mortality at 0.35 mg Cr l^{-1} and retarded growth of young brook trout at the lowest concentration tested (0.01 mg Cr l^{-1}). Eig[illegible]month exposures of rainbow trout significantly increased alevin mortality at 0.34 mg Cr l^{-1} and also retarded growth at the lowest concentration tested (0.10 mg Cr l^{-1}). Exposures of brook trout lasting 22 months showed, however, that growth was only temporarily affected, and therefore, it was not used as an end point to measure the affects of chromium on either species. Reproduction, and embryo hatchability of brook trout were unaffected at Cr(VI) concentrations that affected survival of newly hatched alevins. The maximum acceptable toxicant concentration (MATC) for brook and rainbow trout exposed to Cr(VI) in water with a hardness of 45 mg l^{-1} (as $CaCO_3$) and a pH range of 7–8 lies between 0.20 and 0.35 mg Cr l^{-1}. The 96-h LC50 for brook and rainbow trout was 59 and 69 mg Cr l^{-1}, respectively; therefore, the application factor (MATC/96-h LC50) for both species lies between 0.003 and 0.006. EPA CONTACT: Benoit, D. A. 8–783–9507

600/J-76–014 PE 1BA608 IN-HOUSE PROJECT

X-Ray Diffraction and Electron Beam Analysis of Asbestiform Minerals in Lake Superior Waters BY P. M. Cook, I. B. Rubin, C. J. Maggiore, and W. J. Nicholson, Environmental Research Laboratory, EPA Duluth, MN

Western Lake Superior water, which is used for municipal water supplies, contains large concentrations of asbestiform amphibole fibers because of a taconite tailings discharge at Silver Bay, Minnesota. Large fluctuations in fiber concentrations are attributable to seasonal and meteorological changes which influence Western Lake Superior water circulation. Variations in electron microscope amphibole fiber counts generally correspond to variations in amphibole mass concentration determined by x-ray diffraction. Daily x-ray diffraction and occasional transmission electron microscope measurements of Duluth, Minnesota drinking water samples allows an estimate of the average (45–100 million) and the range (10–1000 million) of identifiable amphibole fibers per liter of water. Not all the amphibole fibers present can be identified due to their extremely small width. EPA CONTACT: Cook, P. M. 8–783–9548

600/J-76–015 PE 1BC611 IN-HOUSE PROJECT

Estimating the Reliability of Advanced Waste Treatment BY S. L. Forsythe, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

Daily operating data from South Lake Tahoe covering six years of continuous operation together with shorter records from other plants have been analyzed. The data are skewed but can be normalized by conversion to logs, thus permitting estimates of long-term reliability based on normal statistics. A spread factor, S, which is the antilog of the standard deviation is shown to be a useful parameter for estimating future performance. Spread factors lie between 1.5 and 2.0 for all the parameters studied except MPN. The Ely, Minnesota, plant on Shagawa Lake produces an effluent that has approximately one tenth the concentration of phosphates obtained by other AWT plants, but the spread factor is about the same for all plants. EPA CONTACT: Dean, R. B. 8–684–7602

600/J-76–016 PE 1BA608 IN-HOUSE PROJECT

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Supersaturated Water BY A. V. Nebeker, G. R. Bouck, and D. G. Stevens, Environmental Research Laboratory, EPA Corvallis, OR

Juvenile sockeye salmon (*Oncorhynchus nerka*) were exposed to lethal levels of airsupersatured water (120 percent, 125 percent, 130 percent total gas saturation) containing different oxygen-nitrogen ratios and different carbon dioxide concentrations. Fish mortality was not significantly different at different carbon dioxide levels (1.7 to 22.0 mg/liter CO_2) when tested at the same total gas saturation concentrations. Total gas saturation levels are much more important than the O_2/N_2 ratios, as fish mortality will not occur unless total gas saturation exceeds 100 percent, regardless of the O_2N_2 ratios. There was a significant decrease in mortality when the ratio of oxygen to nitrogen was increased while holding the total percent saturation constant. Much more extenisve and severe signs of gas bubble disease developed at high O_2/N_2 ratios than at low O_2/N_2 ratios, indicating that oxygen plays a significant part in forming external emphysema and lesions. EPA CONTACT: Nebeker, A. V. 8–420–4735

NEW REPORT ABSTRACTS SECTION

600/J-76-017 PE 1AA602 IN-HOUSE PROJECT

Some Effects of Cadmium on Coniferous Forest Soil and Litter Microcosms BY H. Bond, B. Lighthart, R. Shimabuku, and L. Russell, Environmental Research Laboratory, EPA Corvallis, OR

Description and criticism is given of a preliminary design and use of a soil/litter microcosm in which oxygen, temperature, and humidity are kept constant, and oxygen generation and carbon dioxide and heat evolution rates are monitored. Using four microcosms, one acting as a dead control, experiments were performed giving the following results: for "identically" prepared and incubated microcosms, the coefficient of variation was as small as 3.8 percent for carbon dioxide evolution rate and as large as 9.9 percent for oxygen consumption rates. It was also found that an adjustment period of 7 to 10 days after microcosm preparation was necessary to approach relatively constant production rates. For microcosms adjusted to 10, 30, and 60 percent of field water holding capacity, oxygen and carbon dioxide rates and bacterial densities vary directly whereas the fungi and actinomycetes varied inversely; while for cadmium-amended microcosms, 0.01 ppm and initial stages in the 10 ppm $CdC1_2$ unit oxygen consumption was stimulated suggesting respiratory enzyme uncoupling while in the later stages the 10 ppm cadmium-amended soils reduced both O_2 and CO_2 respiration by 40 percent. No organismal density changes due to cadmium were detected indicating the cadmium initially affects respiration, possibly by uncoupling respiratory phosphorylation, and that longer experiments might be necessary to detect population density changes. EPA CONTACT: Bond, H. 8–420–4666

600/J-76-018 PE 1BA608 IN-HOUSE PROJECT

Effects of Air-Supersaturated Water on Survival of Pacific Salmon and Steelhead Smolts BY A. V. Nevaker, and J. R. Brett, Environmental Research Laboratory, EPA Corvallis, OR

Coho (*Oncorhynchus kisutch*) and sockeye (O. Nerka) salmon smolts and steelhead trout (*Salmo gairdneri*) smolts were exposed to several concentrations of air-supersaturated water in the laboratory from March through June, 1974, the normal fish migration period in the Columbia River and the time when the river water is usually supersaturated. Tests were conducted at 12°C in water 60 cm deep. Time to 20 percent death was determined and lethal threshold concentrations of 114.5 percent saturation for coho, 113.5 percent for sockeye, and 114.0 percent for steelhead were calculated. Ninety-six hour LC50 values were 120.5 percent for coho, 116.7 percent for sockeye, and 116.0 percent total gas percent saturation for steelhead. Thirty-day LC50 values were 116.2 percent for coho, 113.9 percent for sockeye, and 114.0 percent for steelhead. Severe emphysema (bubbles) occurred on fins, in the mouth, and on the head and opercles of the fish exposed to 120 percent and 115 percent saturation. Emphysema was not as severe at 110 percent but occurred in 60 percent of the coho, 20 percent of the sockeye and 80 percent of the steelhead. EPA CONTACT: Neveker, A. V. 8–420–4735

600/J-76-019 PE 1BA031 IN-HOUSE PROJECT

Limnological Comparison of Culturally Eutrophic Shagawa Lake and Adjacent Oligotrophic Burntside Lake, Minnesota BY D. W. Schults, K. W. Malueg, and P. D. Smith, Environmental Research Laboratory, EPA Corvallis, OR

Limnological characteristics for 1971–1972 of culturally eutrophic Shagawa Lake, Minnesota, were compared to those of the immediately upstream, oligotrophic Burntside Lake to evaluate the effects of domestic waste-water discharge to Shagawa Lake. Typical characteristics of Shagawa Lake were extensive summer blue-green algal blooms (*Anabaena* and *Aphanizomenon*) anaerobic hypolimnion and large and rapid fluctuations in chemical constituents. In contrast, oligotrophic Burntside Lake was characterized by low numbers of algae (predominantly diatoms and greens), aerobic hypolimnion and small changes in chemical constituents. Chlorophyll-a concentrations in Shagawa Lake typically reached 50–60 micrograms/liter while Burntside Lake the maximum observed was 6 micrograms/liter. Predominant benthic fauna in Shagawa Lake was *Chaoborus* at densities up to 28 x 10^3 organisms/m^2, while in Burntside Lake Amphipoda predominated during the summer at a maximum density of about 1300 organisms/m^2. Both inorganic nitrogen (IN) and orthophosphate phosphorus (OP) in Shagawa Lake were depleted to undetectable levels in the epilimnion during the summer. In the epilimnion of Burntside Lake, OP was at the detectable limit throughout most of the summer and IN was depleted to undetectable levels. The thermocline in Burntside Lake was relatively stable, while in Shagawa Lake it was readily destroyed by passing cold fronts and strong winds, thus allowing nutrient-rich hypolimnetic water to mix with the nutrient-limited epilimnetic water which helped to sustain the algal biomass. EPA CONTACT: Schults, D. W. 8–420–4776

600/J-76-020 PE 1AA602 IN-HOUSE PROJECT

Estimation of Viable Airborne Microbes Downwind from a Point Source BY B. Lighthart, and A. S. Frisch, Environmental Research Laboratory, EPA Corvallis, OR

Modification of the Pasquill atmospheric diffusion equations for estimating viable microbial airborne cell concentrations downwind from a continuous point source is presented. A graphical method is given to estimate the ground level cell concentration given (i) microbial death rate, (ii) mean wind speed, (iii) atmospheric stability class, (iv) downwind sample distance from the source, and (v) source height. EPA CONTACT: Lighthart, B. 8–420–4632

NEW REPORT ABSTRACTS SECTION

600/J-76-021 **PE 1HB617** **IN-HOUSE PROJECT**

Protonation of Organic Bases in Clay-Water Systems BY S. W. Karickhoff, and G. W. Bailey, Environmental Research Laboratory, EPA Athens, GA

The extent of protonation of organic bases in clay-water systems depends upon the adsorptive properties of the organo-clay species involved, and upon the structure and degree of hydration of the clay system. Organic molecules that can disperse cationic charge over two or more condensed aromatic rings give rise to greater surface-induced protonation than do single-ring organic molecules with similar solution pK_a. Protonation in clay suspensions is frequently far in excess of that predicted on the basis of electrolytic suspension pH and solution pK_a of the organic base. For a given organic base, protonation in a clay film exceeds that in the suspended clay system. Protonation in an organo-clay film increases as the film moisture content decreases. The extent of protonation in organo-clay systems varies with cationic species, cationic saturation, and clay type. EPA CONTACT: Karickhoff, S. W. 8-289-3593

600/J-76-022 **PE 1BA608** **IN-HOUSE PROJECT**

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (*Salvelinus fontinalis*) BY G. W. Holcombe, D. A. Benoit, E. N. Leonard, and J. M. McKim, Environmental Research Laboratory, EPA Duluth, MN

Exposure of three generations of brook trout (*Salvelinus fontinalis*) to mean total lead concentrations (0.9–474 micrograms/1) showed that all second-generation trout exposed to 235 and 474 micrograms Pb/1 and 34% of those exposed to 119 micrograms Pb/1 developed severe spinal deformities (scoliosis). Scoliosis also appeared in 21% of the newly hatched third-generation alevins exposed to 119 micrograms Pb/1, and weights of these fish 12 wk after hatch were significantly reduced. Gill, liver, and kidney tissues of first- and second-generation brook trout accumulated the greatest amount of lead. Only small amounts accumulated in the edible muscle. An equilibrium of lead residues was reached in liver and kidney tissue from second-generation fish after 70 wk of exposure, but not in gill tissue. Fish exposed to 119 micrograms Pb/1 and then placed in uncontaminated control water for 12 wk showed a 70, 78, and 74% loss in micrograms Pb per gram for gill, liver and kidney tissue, respectively, and a 39, 56, and 35% loss, respectively, in the total micrograms of Pb in the whole tissue. Residue analysis of eggs, alevins, and juveniles showed that lead was accumulated during these life stages. The maximum acceptable toxicant concentration (MATC) for brook trout in water with a hardness of 44 micrograms/liter (as $CaCO_3$) and a pH of 6.8–7.6 lies between 59 and 119 micrograms/liter for total lead and between 39 and 84 micrograms/liter for dissolved lead. The MATC was based on the development of scoliosis in second- and third-generation fish and the reduced growth of 12-wk-old third-generation trout. EPA CONTACT: Holcombe, G. W. 8-783-9566

600/J-76-023 **PE 1BA608** **IN-HOUSE PROJECT**

Comparative Toxicity of Polyelectrolytes to Selected Aquatic Animals BY K. E. Biesinger, A. E. Lemke, W. E. Sm[illegible] and R. M. Tyo, Environmental Research Laboratory, EPA Duluth, MN

Although polyelectrolytes are widely used to control solids in potable water and municipal wastewater, very few studies have been made to assess their toxicity to aquatic animals. Consequently, the authors tested the acute toxicity of several polyelectrolytes to rainbow trout, lake trout, a mysid, a copepod and a cladoceran in Lake Superior water. They also tested the chronic toxicity of three of these compounds to *Daphnia magna* to study possible effects on reproduction. Their results indicated that some of the cationic polyelectrolytes tested were toxic at concentrations that might easily be released into the aquatic environment and cause serious problems to aquatic life. EPA CONTACT: Biesinger, K. E. 8-783-9524

600/J-76-024 **PE 1BA608** **IN-HOUSE PROJECT**

Cadmium and Zinc Toxicity to Flagfish, *Jordanella floridae* BY R. L. Spehar, Environmental Research Laboratory, EPA Duluth, MN

Cadmium and zinc toxicity to the flagfish (*Jordanella floridae*) was determined on the basis of 96-hr median lethal concentrations (LC50) and significant decreases ($P = 0.05$) in survival, growth, and reproduction over the complete life cycle of the fish. The 96-hr LC50 values for cadmium and zinc to juvenile flagfish were 2,500 and 1,500 micrograms/liter, respectively. In chronic tests, reproduction was the most sensitive indicator of cadmium toxicity and was inhibited at 8.1 micrograms/liter. Tissue-concentration analysis showed that fish exposed to concentrations of 1.7 microgram/liter and above accumulated significantly greater amounts of cadmium than those in the controls. In zinc tests, survival of larvae (not exposed as embryos) and growth of females were the most sensitive measure of zinc toxicity and were reduced at respective concentrations of 85 and 51 micrograms/liter. Significant uptake of zinc occurred in fish exposed to concentrations of 47 micrograms/liter and above. The lowest cadmium and zinc concentrations causing adverse effects to the flagfish were similar to those affecting other fish species. Application factors for both metals were similar to those reported for cadmium exposed bluegills (Lepomis macrochirus) and zinc exposed fathead minnows (Pimephales promelas) in hard water. EPA CONTACT: Spehar, R. L. 8-783-9564

600/J-76-025 **PE 1BA608** **IN-HOUSE PROJECT**

Larval Feeding and Rapid Maturation of Bluegills in the Laboratory BY W. E. Smith, Environmental Research Laboratory, EPA Duluth, MN t+1 Bluegill larvae were raised in the laboratory with a high percentage of survival using newly hatched San Francisco brine shrimp nauplii as a first food. Utah brine shrimp nauplii and older San Francisco nauplii were too large for a bluegill first food. Bluegills were raised to maturity in 4–6 months. EPA CONTACT: Smith, W. E. 8-783-9532

NEW REPORT ABSTRACTS SECTION

600/J-76-026 PE 1BA608 IN-HOUSE PROJECT

Isolation and Identification of Polychlorinated Syrenes in Great Lakes Fish BY D. W. Kuehl, H. L. Kopperman, G. D. Veith, and G. E. Glass, Environmental Research Laboratory, EPA Duluth, MN

A previously unreported compound type, the polychlorinated styrenes, have been isolated and identified in fish from Lake Ontario, Lake Huron and the Detroit River. Octachlorostyrene has been synthesized to confirm its presence by gas chromatographic and mass spectral data. EPA CONTACT: Kuehl, D. W. 8-783-9526

600/J-76-027 PE 1BA608 IN-HOUSE PROJECT

Chlorinated Compounds Found in Waste-Treatment Effluents and Their Capacity to Bioaccumulate BY H. L. Kopperman, D. W. Kuehl, and G. E. Glass, Environmental Research Laboratory, EPA Duluth, MN

The incorporation of chlorine into compounds during the disinfection of waste effluents with chlorine in an undesirable end result of effluent treatment due to an increase in the persistance and bioaccumulatability of the chloro-organics. The problems that arise with bioaccumulation of organic compounds are generally not immediately apparent, and a major segment of the ecosystem may be contaminated before the problem is recognized. A discussion of chlorinated compounds found in waste-treatment effluents and their capacity to bioaccumulate is presented. Attention is especially drawn to an unreported compound type, the chloroanisoles. EPA CONTACT: Kuehl, D. W. 8-783-9526

600/J-76-028 PE 1BA032 IN-HOUSE PROJECT

Analysis of Buoyant Surface Jets BY M. A. Shirazi, and L. R. Davis, Environmental Research Laboratory, EPA Corvallis, OR

To obtain improved prediction of heated plume characteristics from a surface jet, an integral analysis computer model was modified and a comprehensive set of field and laboratory data available from the literature was gathered, analyzed, and correlated for estimating the magnitude of certain coefficients that are normally introduced in these analyses to achieve closure. The parameters so estimated include the coefficients for entrainment, turbulent exchange, drag, and shear. Since there appeared considerable scatter in the data, even after appropriate subgrouping to narrow the influence of various flow conditions on the data, only statistical procedures could be applied to find the best fit. This and other analyses of its type have been widely used in industry and government for the prediction of thermal plumes fom steam power plants. Although the present model has many shortcomings, a recent independent and exhaustive assessment of such predictions revealed that in comparison with other analyses of its type the present analysis predicts the field situations more successfully. EPA CONTACT: Shirazi, M. A.

600/J-76-029 PE 1HA091 IN-HOUSE PROJECT

Optimization of State Water Quality Monitoring Systems BY D. H. Lewis, Environmental Research Laboratory, EPA Corvallis, OR

The water quality monitoring activities required of the States under the Federal Water Pollution Control Act Amendments (PL92-500) will require resources well beyond what is likely to be available, if current systems structures and operating procedures are followed. This paper describes some quantitative procedures developed to optimize monitoring resource allocation, with the goal of getting the greatest possible return on a limited monitoring budget. The ambient and effluent standards which form the basis of the monitoring system are described. Stochastic inputs to the river basin which lead to violations of these standards are identified, and progress in characterizing these variations mathematically is discussed. Quantitative priority-setting procedures for the two principal monitoring activities (ambient and effluent), which take into account these stochastic inputs, are reviewed. Both procedures are designed to tell the state agency planner where the next increment of resource should be expended to maximize alternative monitoring objective functions. Approaches to intergrating these two primary monitoring functions and opportunities for further applications of operations research techniques to improve program effectiveness and efficiency are suggested. EPA CONTACT: Lewis, D. H. 8-420-4754

600/J-76-030 PE 1BA609 IN-HOUSE PROJECT

Captan Hydrolysis BY N. L. Wolfe, R. G. Zepp, J. C. Doster, and R. C. Hollis, Environmental Research Laboratory, EPA Athens, GA

Captan [N-(trichloromethylthio)-4-cyclohexene-1,2-dicarboximide] undergoes hydrolysis readily in water with a maximum half-life of 710 min. Over the pH range 2-6, the reaction is pH independent and the pseudo-first-order rate constant is $(1.8 \pm 0.1) \times 10^{-5}\ s^{-1}$. Above pH 7 the reaction is pH dependent and the second-order rate constant for alkaline hydrolysis is $(5.7 \pm 0.4) \times 10^{2}\ m^{-1}\ s^{-1}$. The products are 4-cyclohexene-1,2-dicarboximide, carbon dioxide, hydrochloric acid, and sulfur. Folpet [N-(trichloromethylthio)phthalimide] and captafol [N-(1,1,2,2,-tetrachloroethylthio)-4-cyclohexene-1,2-dicarboximide] hydrolyze at pH 7 with rates similar to that of captan. It is very likely that hydrolysis will be an important degradative pathway for these fungicides in the aquatic environment. EPA CONTACT: Wolfe, N. L. 8-250-3428

NEW REPORT ABSTRACTS SECTION

600/1–76–026 PE 1CC614 IN-HOUSE PROJECT

Public Behavior and Attitudes in Response to Reported Hazardous Drinking Water – A Feasibility Study BY R. E. Franz Jr., Health Effects Research Laboratory, EPA Cincinnati, OH

The discovery that asbestiform fibers occurred in the Duluth, Minnesota drinking water supply caused considerable official and public concern. Advice was given that use of the water should be curtailed especially for children. The Army Corps of Engineers provided specially filtered water for anyone who wanted to use such. When it was learned that Duluth was not a unique situation and that other drinking water supplies also contained asbestiform fibers, it was expected that the provision of specially filtered water might also be done in other cities. At one time it was proposed that bottled water be provided to the residents of Boston because of concern about the lead content of the drinking water. Little is known about the use of such emergency water supply and if the practice is to continue it would seem desirable to measure the public's reaction and use of the water provided. Such information would aid in the provision of the emergency water supply and encouraging the public use of the water provided. It was not known if valid data could be obtained in this emotionally charged situation and Dr. Robert E. Franz agreed to conducting a study: "Report on feasibility study and pretest of survey of techniques of determining public attitude on use of emergency filtered water in city with reported hazardous drinking water." This is a report of the feasibility study. EPA CONTACT: McCabe, L. J. 8–684–7211

600/1–76–033 PE 1CC614 IN-HOUSE PROJECT

Renovated Wastewater as a Supplementary Source for Municipal Water Supply: An Economic Evaluation BY R. M. Clark, Municipal Environmental Research Laboratory, EPA Cincinnati, OH BY J. I. Gillean, and K. Adams, Act System, Inc. Winterpark, FL

The possibilities associated with the reuse of treated wastewater for domestic water supply purposes have long fascinated sanitary engineers. Wastewater renovation allows for the purification of sewage effluent through advanced waste treatment, making a high quality water available on site for municipal use. The apparent potential for domestic use of renovated wastewater, coupled with a growing concern and awareness of problems associated with water supply, as indicated by the Safe Drinking Water Act of 1974, have made it imperative that an examination of renovated wastewater as a supplementary source of water supply be undertaken. The report presents an analysis of the cost of renovated wastewater as a supplementary source of water supply. Two water supply utilities provide the basis for a case study evaluation of the cost of renovated wastewater reuse. EPA CONTACT: Clark, R. 8–684–7201

600/1–76–034 PE 1AA601 CONTRACT NO. 68–02–1737

Nitrogen Dioxide Trends in Selected Chattanooga Communities BY C. E. Decker, and T. M. Royal, Research Triangle Institute Research Triangle Park, NC

The objectives of this project were to operate air monitoring stations and collect air quality data in the Chattanooga, Tennessee area to support epidemiological studies during the period of June 15, 1974 to June 14, 1976. This ongoing project was begun in 1969 under the sponsorship of the U.S. Environmental Protection Agency and was designed to gather air quality data for use in studies relating health effects to ambient concentrations of oxides of nitrogen. Initially, the aerometric program consisted of particulate (high volume method) and nitrogen dioxide (CHESS bubbler method) measurement at ten stations located in and about the Chattanooga area. In 1972 the Research Triangle Institute upgraded the aerometric monitoring program in Chattanooga through a joint project sponsored by the Environmental Protection Agency and the Coordinating Research Council. Chemiluminescent $NO\text{-}NO_x\text{-}NO_2$ analyzers and data acquisition systems were installed in environmentally-controlled shelters at seven of the nine monitoring sites operating at that time. The Research Triangle Institute has operated and maintained the nine-station monitoring network and provided aerometric data to the Environmental Protection Agency. EPA CONTACT: Barnard, W. F. 8–629–8411

600/1–76–035 PE 1EA615 CONTRACT NO. 68–02–1289

In-Vitro Methods for Evaluating Side Effects of Pesticides and Toxic Substances BY T. Narahashi, Duke University Medical Center Durham, NC

Several skeletal muscle and smooth muscle preparations have been examined for their usefulness in evaluating the toxic effects of a variety of insecticides. The following preparations were found satisfactory for such test: guinea pig ileum for muscarinic receptors, guinea pig heart for beta-adrenergic receptors, guinea pig vas deferens for alpha-adrenergic receptors, frog rectus abdominis for nicotinic receptors of tonic muscle, and rat diaphragm for nicotinic receptors of phase muscle. Five carbamate insecticides, four organophosphate insecticides and chlordimeform were studied. None of the insecticides tested had any direct and potent effect on these receptors except the effect on cholinergic receptors via cholinesterase inhibition. Carbofuran, propoxur and formetanate had potent stimulating actions on the guinea pig ileum, but these effects could entirely be attributed to the accumulation of acetylcholine in the synaptic cleft as a result of cholinesterase inhibition. Thus, it can be concluded that these insecticides exert no direct action on cholinergic and adrenergic receptors. EPA CONTACT: Rosenstein, L. S. 8–629–2544

NEW REPORT ABSTRACTS SECTION

600/1–76–036 **PE 1AA601** **CONTRACT NO. 68–02–1226**

Arsenic National Academy of Sciences Washington, DC

This report is an in-depth study that attempts to assemble, organize, and interpret present-day information on arsenic and its compounds, and the effects of these substances on man, animals, and plants. Emphasis is given to the effects of arsenic on man, conclusions are drawn from the evaluation of current knowledge on the subject, and recommendations are made for further research. Although arsenic is highly toxic in many of its forms, a number of factors suggest that it probably is not a general pollution problem. In fact, there are indications that it may be an essential trace element. There is some evidence that arsenicals can be mutagenic in humans. There is epidemiologic evidence that inorganic arsenic is a skin and lung carcinogen in man. Skin cancer has occured in association with exposure to inorganic arsenic compounds in a variety of populations, including patients treated with Fowler's solution, Taiwanese exposed to arsenic in artesian well water, workers engaged in the manufacture of pesticides, and vintners using arsenic as a pesticide. Lung cancer has been observed to be associated with inhalation exposure to arsenic in copper smelters, workers in pesticide manufacturing plants, Moselle vintners, and Rhodesian gold miners. While much arsenic enters the atmosphere from the burning of coal, the concentrations are too low to be a matter of concern. EPA CONTACT: Stopinski, O. W.

600/1–76–037 **PE 1EA615** **CONTRACT NO. 68–02–1799**

Feasibility of Applying Field Ionization Mass Spectrometry to Pesticide Research BY R. L. Dyer, H. A. Heck, A. C. Scott, and M. Anbar, Stanford Research Institute Menlo Park, CA

An isotope dilution methodology was developed for analysis of an insecticide, parathion, and a herbicide, trifluralin, isolated from rat tissues and excreta. Sample cleanup was facilitated by use of high-pressure gel permeation chromatography in conjunction with thin layer chromatography and reversed-phase high pressure liquid chromatography. Isotope ratio measurements were performed using multilabeled stable isotopic carriers and nonfragmenting field ionization mass spectrometry. Parathion and trifluralin were administered intraperitoneally and/or orally at the sub-mg/kg level, and the unchanged materials assayed in tissues and excreta at the ppb level. The technique was also applied to the determination of parathion and methyl parathion concentrations in aerosols. The biological implications of the results of the animal experiments are discussed. EPA CONTACT: Curley, A. 8–629–2655

600/2–76–086b **PE 1AB014** **CONTRACT NO. 68–02–1074**

Field Testing: Trace Element and Organic Emissions from Industrial Boilers BY G. A. Cato, KVB Engineering, Inc. Tustin, CA

The report gives results of the sampling of four coal-fired industrial boilers to determine the emissions of 19 trace and minor elements and polycyclic matter (POM). The trace and minor element emissions were related to total quantities of each element present in the fuel by examining the degree of mass balance and element partitioning based on fuel input and element output in furnace deposits, flyash, and flue gas vapor. The tendency of volatile elements for enrichment of finer particulate was examined by analysis of cascade impactor samples. Measured output of elements classified as high in volatility tended to be less than the fuel input, attributed to possible low collection efficiency of vapor-phase element sampling equipment. These same elements were found to be more highly concentrated in the flyash as opposed to furnace deposits and to have higher concentrations in the smaller particle sizes. Elements classed as medium or low in volatility tended to be more uniformly distributed with respect to both partitioning in the boilers and particle size. Mass output results for these elements frequently exceeded coal input, indicating possible sample contamination by boiler or sampling system construction materials. The presence of four specific POM compounds was indicated in the coal, ashes, and stack gases, but results were highly variable. EPA CONTACT: Hall, R. E. 8–629–8411

600/2–76–112 **PE EHE623** **CONTRACT NO. 68–01–0724**

Resources Allocation to Optimize Mining Pollution Control BY K. S. Shumate, E. E. Smith, V. T. Ricca, and G. M. Clark, Ohio State University Research Foundation Columbus, OH

A comprehensive model for mine drainage simulation and optimization of resource allocation to control mine acid pollution in a watershed has been developed. The model is capable of: (a) producing a time trace of acid load and flow from acid drainage sources as a function of climatic conditions; (b) generating continuous receiving stream flow data from precipitation patterns and watershed status typical of "worst case" conditions that might be expected, e.g., once every 10 or 100 years; and (d) predicting optimum resource allocation using alternative methods of treatment and/or abatement for "worst case" conditions during both wet and dry portions of the hydrologic year. The model is comprehensive and may, therefore, be more detailed than required. This attention to detail was given in the belief that it will be easier to simplify the model than to modify it to increase detail. Because of the detail incorporated in the model as now constituted, a large amount of field data is required as input. In most cases, the desired field data are not now available. The model has not been fully tested or compared to real systems, nor has sensitivity to input data been determined. Therefore reliability of the model; and the necessity of detailed field data, have not been established. Comparisons with real systems are necessary to determine the level of simplification that can be permitted before the validity or usefulness of the model is impaired. EPA CONTACT: Harris, E. F. 8–684–4417

NEW REPORT ABSTRACTS SECTION

600/2–76–123 PE 1BB036 GRANT NO. 12020 EGC

Treatment and Disposal of Complex Industrial Wastes BY C. Schimmel, and D. Griffin, Reichhold Chemicals, Inc. Tuscaloosa, AL

The waste effluent from operation of the Tuscaloosa, Alabama, plant of Reichhold Chemicals, Inc., results from both batch and continuous operations, contains both organic and inorganic wastes and varies both in composition and concentration. This report describes development of a bio-oxidation process which resulted in a significant reduction in BOD5 and COD loading and almost complete removal of phenols. Lack of reliability ascribed to the bio process led to development of an activated carbon adsorption process that has resulted in the average removal of 90% of the COD, 75% of the BOD5 and over 99% of the phenol load in the RCI process waste. Bio-oxidation should not be overlooked for treating industrial wastes although its usefulness is limited with respect to bacterial poisons, such as phenol, and by ambient temperature changes that result in variable biological activity. EPA CONTACT; Lomasney, E. P. 8–285–5201

600/2–76–146 PE 1BB043 CONTRACT NO. 68–03–0250

Wastewater Sampling Transfer and Conditioning System BY L. S. DiCola, Raytheon Company Portsmouth, RI

This report describes the construction and field evaluation of an automatic on-line hardware system for reliably sampling, transferring, and conditioning various wastewater-treatment process streams such that the resulting transferred and conditioned samples are suitable for interfacing with automatic on-line colorimetric and total organic carbon analyzers. Process streams to which this hardware system was successfully applied included raw sewage, primary effluent, secondary effluent, aeration tank mixed liquor, and return activated sludge. Primary sludge could not be sampled at the field-testing site because the sludge had become too thick at its only feasible access point. Analytical parameters used to evaluate the hardware system included both total and soluble organic carbon, orthophosphate, total hydrolyzable phosphate, and ammonia nitrogen. Nitrate and nitrite were not included; however, the hardware system's performance with the soluble parameters studied indicate that nitrate and nitrite should present no special difficulties. EPA CONTACT: Wise, R. H. 8–684–7627

600/2–76–147 PE 1BB041 GRANT NO. 802730

Catalytic Waste Treatment Systems for Great Lake Ore Carriers BY S. E. Moore, R. W. Coleman, and P. E. Lakomski, Thiokol Corporation Brigham City, UT

A research and development program to develop a waste treatment system for a 30–50 man commercial vessel was conducted. The program included evaluation of the system for two operating seasons (1972 and 1973) aboard the Cleveland – Cliffs ore carrier "Cliffs Victory." The results of the Thiokol checkout and shipboard testing are presented in depth with supporting data, data and systems analyses and pertinent conclusions. A summary of problems and recommended corrective action are also presented. EPA CONTACT: McCarthy Jr., L. T. 8–342–7594

600/2–76–156 PE 1BC611 GRANT NO. 802292

Disinfection Efficiency and Residual Toxicity of Several Wastewater Disinfectants BY R. W. Ward, R. D. Griffin, and G. M. DeGraeve, Grand Valley State College Wyoming, MI

This study was conducted to determine the comparative effectiveness of chlorine, bromine chloride, and ozone as wastewater disinfectants, and to determine any residual toxicity associated with wastewater disinfection with these agents or with chlorinated wastewater which had been dechlorinated with sulfur dioxide. Streams of nondisinfected and chlorinated wastewater were pumped from the Grandville, Michigan, Wastewater Treatment Plant to the project laboratory. Part of the chlorinated wastewater stream was delivered directly to the toxicity laboratory for bioassay studies while the remainder of the chlorinated stream was dechlorinated with sulfur dioxide prior to its use in bioassay tests. A portion of the nondisinfected wastewater stream was delivered to the toxicity laboratory for use in bioassays while the remaining portion was split to receive bromine chloride and ozone prior to use in the bioassay studies. Total and fecal coliform densities, suspended solids, volatile solids, COD, ammonia nitrogen, phosphate, turbidity, color, and pH were measured in the wastewater streams. Each of the five wastewater streams was used in acute toxicity tests with several species of fishes and the freshwater macroinvertebrate *Daphnia magna*, and in a life cycle toxicity study with the fathead minnow, *Pimephales promelas*, as the test subject. EPA CONTACT: Venosa, A. D.

600/2–76–175b PE 1BC611 CONTRACT NO. 68–03–0251

Assessment of Mathematical Models for Storm and Combined Sewer Management; Appendix F: Selected Computer Input and Output BY A. Brandstetter, Battelle Pacific Northwest Laboratories Richland, WA

Mathematical models for the nonsteady simulation of urban runoff were evaluated to determine their suitability for the engineering assessment, planning, design and control of storm and combined sewerage systems. The models were evaluated on the basis of information published by the model builders and model users. Seven models were also tested by computer runs using both hypothetical and real catchment data. Most of the models evaluated include the nonsteady simulation of the rainfall-runoff process and flow routing in sewers; a few include also the simulation of wastewater quality, options for dimensioning sewerage system components, and features for real-time control of overflows during rainstorms. EPA CONTACT: Fan, C. Y.

NEW REPORT ABSTRACTS SECTION

600/2-76-180 PE 1BB043 CONTRACT NO. 68-03-0349

Experimental Evaluation of Oxygen and Air Activated Sludge Nitrification Systems—With and Without pH Control BY J. A. Heidman, District of Columbia, Government of Washington, DC

The nitrification capabilities of two oxygen activated sludge systems receiving District of Columbia secondary effluent at a steady state flow of 190 m^3/day (50,000 gpd) were evaluated. The pH of one system was controlled to maintain a pH of 7.0 in the last reactor pass of the four-pass system. The pH of the second system was uncontrolled and reactor pH values of 5.5–6.0 were common. Also parallel air and oxygen nitrification systems both with pH control were evaluated under similar operating conditions. Parameters used to compare the systems included effluent quality, sludge settling rates, lime dosage, sludge production and nitrification kinetic rates. The effluent quality of the oxygen nitrification system with pH control was excellent throughout 8 months of investigation. The effluent NH_4-N concentration averaged about 0.2 mg/1. The effluent NH_4-N of the oxygen process without pH control was normally 1 mg/1 or less. However this system did not show the day-to-day stability that was achieved with pH control. The carbonaceous and nitrogenous effluent quality of the air and oxygen nitrification systems operated at the same loadings with pH control to 7.0 in the last reactor pass of each system was identical. However three times the lime dosage was required in the oxygen system. This resulted in a larger percentage of inert material in the oxygen system and increased sludge production. EPA CONTACT: Kugelman, I. J. 8–684–7631

600/2-76-181 PE 1BB033 CONTRACT NO. 68-03-0417

Evaluation of Flow Equalization at a Small Wastewater Treatment Plant BY G. W. Foess, J. G. Meenahan, and J. M. Harju, Johnson and Anderson, Inc. Pontiac, MI

The primary objective of this project was to evaluate the impact of flow equilization on the 0.092 m^3/sec (2.1 mgd) activated sludge plant at Walled Lake/Novi, Michigan. Process streams were characterized for a twelve-month period under equalized flow conditions with respect to BOD, total suspended solids and total phosphorus. The effects of the equalization basin on final settling and filtration were evaluated by conducting two intensive week-long studies, one with and one without equalization of flow. Flow equalization was effective in leveling influent flow variations but had very little effect upon concentration leveling. Performance of the multimedia filters was superior under the equalized flow, both in terms of average removal efficiency and consistency. EPA CONTACT: Lykins Jr., B. W. 8–684–7615

600/2-76-187 PE 1BB039 GRANT NO. 800767

Design Parameters for the Land Application of Dairy Manure BY S. D. Klausner, P. J. Zwerman, and D. R. Coote, Cornell University, Department of Agronomy Ithaca, NY

The effects of climate, application rate of dairy manure, timing of application and soil management practice were studied in relation to discharge of nitrogen and phosphorus via surface runoff, sediment and tile effluent. Losses of nutrients from the land were influenced by the rate and timing of manure application in addition to the type of climatological event causing runoff. The greatest discharge of nutrients resulted from applying manure on actively melting snow. Modest rates of application made in the winter during non-snowmelt periods resulted in minimal losses. Concentrations of nitrogen in surface runoff as measured over time. were lower than those found in tile effluent. The reverse was true for soluble phosphorus. The yield response of corn increased while efficiencies of nitrogen utilization decreased at the higher rates of application. A computer model dealing with the economic impact of control legislation was developed. Modeling approaches to farm scale environmental problems are feasible if assumptions and simplifications do not influence the results too greatly, or in ways which are unpredictable. EPA CONTACT: Mulkey, L. A. 8–289–3581

600/2-76-197 PE 1BB610 GRANT NO. 803264-01-

New Membranes for Treating Metal Finishing Effluents by Reverse Osmosis BY R. J. Petersen, and K. E. Cobian, Midwest Research Institute . Minneapolis, MN

Long-term reverse osmosis tests were conducted with electroplating wastes on a new membrane referred to as NS-100. This membrane consists of a polyurea layer, formed by the reaction of tolylene diisocyanate with polyethylenimine, deposited on a porous polysulfone support film. The membranes were tested as liners within 1/2-inch diameter fiber glass tubes. A total of 2360 hours of continuous reverse osmosis operation was achieved, 1220 hours on pH 1.2 acid copper rinse water and 1140 hours on pH 12.8 alkaline zinc cyanide rinse water. The membranes exhibited remarkable chemical stability during exposure to these two pH extremes. Copper and zinc rejections were generally greater than 99 percent, while cyanide rejections were typically 96 percent or greater. Membrane fluxes were in the range of 18 to 24 liters per sq. m. per hr. (11 to 14 gfd) for acid copper, but only 8 to 15 $1/m^2$ -hr (5 to 9 gfd) for zinc cyanide at 41.4 bars (600 psig) and 25°C. Rejection of organics (including brighteners) was 60 to 78 percent for acid copper and greater than 95 percent for zinc cyanide. NS-100 membranes did not reject sulfuric acid. A modified membrane NS-101, demonstrated twice the permeate flux of NS-100 toward zinc cyanide baths, but cyanide rejections were low at 90 percent. Difficulties of producing reproducible, high-flux tubular membranes were not fully resolved in this study. EPA CONTACT: Wilson, D. L. 8–684–4248

NEW REPORT ABSTRACTS SECTION

600/2-76-198 PE 1BB043 CONTRACT NO. 68-03-0144

Instrumentation and Automation Experiences in WastewaterTreatment Facilities BY A. J. Molvar, and R. H. Babcock, Raytheon Company Portsmouth, RI BY J. F. Roesler, and R. H. Wise, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

This report describes the results of a nationwide survey of instrumentation and automation experiences in fifty wastewater-treatment plants. The data show that the average wastewater-treatment plant spent about 3% of the construction costs for installed instruments. This is about half the instrument utilization rates of water supply and chemical process plants. Sensors measuring mechanical or physical properties show satisfactory performance records and were very popular. Sensors measuring chemical parameters tended to be unreliable and were subject to continued fouling from solids deposition, slime buildup and precipitation. Automatic process control is only occasionally utilized in wastewater treatment, but it performs well with sensors that have good performance records. Approximately 20% of the visited facilities were used for data-logging computers, and 90% of these facilities were satisfied with their systems. Process and supervisory control computers are not well established in dry weather treatment plants, but computers are being effectively utilized in stormwater control centers. EPA CONTACT: Roesler, J. F. 8-684-7617

600/2-76-219 PE 1HB617 GRANT NO. 803477

Assessment of Irrigation Return Flow Models BY W. R. Walker, Colorado State University Fort Collins, CO

Throughout the Western United States irrigation return flows contribute to the problem of water quality degradation. Evaluating the effectiveness of alternative management strategies involves models which simulate the processes encompassed by irrigated agriculture. The development and application of these models require multidisciplinary expertise. A workshop involving fifteen specialists in the varied aspects of irrigation return flow modeling was held to review the status of these models. Irrigation return flow and conjunctive use models recently developed by the Bureau of Reclamation served as focal points for the workshop. As the field verification and potential applications of these models were discussed, several general problems were identified where further investigation is needed. Particular emphasis was given to the description of the spatially varied aspects of soil, crop, and aquifer systems, and the proper alignment of model objectives with available data. The large number and diversity of existing models illustrate the individualistic nature of irrigation return flow modeling. In order to affect more widespread utilization of existing models, a systematic procedure should be developed to update and disseminate this modeling technology. EPA CONTACT: Hornsby, A. G.

600/2-76-220 PE 1BB610 GRANT NO. 801030

Extraction of Chemical Pollutants from Industrial Wastewaters with Volatile Solvents BY J. P. Earhart, K. W. Won, C. J. King, and J. M. Prausnitz, California, University of Berkeley, CA

Solvent extraction with volatile solvents was studied as a method for treating wastewaters from petroleum refineries and petrochemical plants. Extraction is most attractive when the loading of organics is high, when substances are present which pose difficulties for biological oxidation, and/or when the chemical value of recovered organics is high. Volatile solvents (isobutylene and isobutane) were given particular attention, since they are easily regenerated and since they have a low solubility in the effluent water. Equilibrium distribution coefficients were determined for numerous systems of water, various solvents and various solutes, and correlations of these coefficients were developed. A miniplant extraction facility was used to demonstrate the capabilities of extraction for treatment of seven different industrial wastewaters, and for the purpose of analyzing the underlying mass transfer and axial mixing behavior. The scale-up of the extraction system and the logic of selecting extraction processes for wastewater treatment are explored at length. EPA CONTACT: Hale, J. H.

600/2-76-222a PE 1BC611 GRANT NO. 11023 FAO

Wastewater Management Program, Jamaica Bay, New York – Volume I. Summary Report BY D. L. Feurstein, and W. O. Maddaus, H. F. Ludwig and Associates Berkeley, CA

The Jamaica Bay ecosystem and wastewater discharges to the bay were characterized during a comprehensive 3-year study. The primary objective of the project was the development of management criteria and procedures for the bay ecosystem, with major emphasis on combined sewer overflow management to provide for water contact recreation in the bay. Analysis of the sampling results and the output of the hydrologic models developed during the project demonstrated that (1) the four municipal sewage treatment facility effluents are the major sources of organic and nutrient materials discharged to the bay, (2) combined sewer overflows represent significant sources of solids and coliforms to the bay, (3) the Spring Creek combined sewer overflow treatment facility will provide substantial benefit in reducing overall pollution from combined sewer overflows in the Jamaica Bay drainage basin and (4) treatment of combined sewer overflows from the Paerdegat Basin will provide the next greatest benefit to the quality of the bay. Recommendations are presented on the most costeffective development of a wastewater management program for the Jamaica Bay drainage basin that would result in water quality conditions suitable for water contact recreation at all potential beaches along the perimeter of Jamaica Bay. EPA CONTACT: Tafuri, A. N. 8-342-3512

NEW REPORT ABSTRACTS SECTION

600/2-76-227 PE 1BB610 GRANT NO. 801431

Naval Stores Wastewater Pruification and Reuse by Activated Carbon Treatment BY F. H. Gardner Jr., and A. R. Williamson, Hercules, Inc. Hattiesburg, MS

This report documents the reasons for selecting a physico-chemical process instead of a more conventional biological process for secondary treatment of the complex organic wastewaters generated by a Naval Stores manufacturing plant. The selected carbon adsorption system is then discussed in detail including its removal effectiveness, problems encountered, and economics of operation. The system, when operated within specifications, is capable of removing about 80% of the COD and 85% of the TOC remaining after primary treatment at a cost of about 31.4¢/1000 gal. The total system achieves 95% + removals of COD and TOC. EPA CONTACT: Skovronek, H. S.

600/2-76-228 PE 1BC611 GRANT NO. 11020 EZW

Demonstration of Interim Techniques for Reclamation of Polluted Beachwater BY J. F. Weber, Cleveland, City of, Department of Public Works Cleveland, OH

The shores of Lake Erie, bordering Cleveland, which had become contaminated because of combined sewer overflows, were made safe for swimming through the use of various interim techniques. These techniques were designed to keep beaches safe until long range goals such as an expanded sewage system can be implemented. The swimming areas at White City and Edgewater beaches were disinfected with sodium hypochlorite and enclosed by fabric barriers. The barriers provide protection from contamination of the beaches by floating debris and retarded the diffusion of disinfectant into deep waters. The other techniques which were attempted were: streams and combined sewer overflows were screened and treated with sodium hypochlorite; lateral sewers were flushed to reduce the "first slug" effect; physical clean-up of the beaches and water were made; and polymers were used in an attempt to increase sewer flow and thereby decrease sewer overflows. The phenomenon of "bacteriological aftergrowth" was investigated to find a method to optimize chlorination as a disinfectant. EPA CONTACT: Field, R. 8-342-7503

600/2-76-232 PE 1BB610 GRANT NO. 801206

Water Reuse in a Paper Reprocessing Plant BY L. E. Streebin, G. W. Reid, P. Law, and C. Hogan, Big Chief Roofing Company Ardmore, OK

This project was undertaken to determine the feasibility of water reuse in a paper reprocessing plant with the goal being to "close the loop" or to demonstrate zero discharge technology. Before the project began, Big Chief Roofing Company at Ardmore, OK, was discharging 7.89 1/sec (125 gpm). Normal operation is now zero discharge with approximately 0.76 1/sec (12 gpm) fresh water make-up replacing evaporative losses. However, weekly clean-ups still result in an effluent of approximately 15.14 M^3 (4000 gal) a week. Additional clear water storage capacity could eliminate this weekly discharge. Project scope included identifying and solving problems resulting from increased recycle of process water, and determining costs, benefits, and effect on product quality. The favorable cost/benefit ratio experienced at the plant demonstrated an economic advantage of in-plant control over end-of-pipe treatment. Attaining zero discharge operation has the further benefit of eliminating the problems, cost and liabilities associated with operation under a discharge permit. Economic benefits observed during zero discharge operation included reduced water supply costs, reduced wastewater treatment costs improved yield, improved drainage and greater dryer section production. The benefits were partially offset by shorter felt lives, increased corrosion control cost, and process modification cost. No degradation of product quality was observed. EPA CONTACT: Ruppersberger, J.

600/2-76-233 PE 1HB617 GRANT NO. 802203

Design Criteria for Swine Waste Treatment Systems BY F. J. Humenik, and M. R. Overcash, North Carolina State University Raleigh, NC

Coordinated laboratory, field pilot-, and farm-scale lagoon studies were conducted to define relationships between loading intensity and frequency based on treatment performance, sludge accumulation, and odor potential. Surface aeration of field pilot units and farm-scale lagoons was also investigated to evaluate aeration levels required for odor control and the effect of surface aeration on nitrogen and organic transformations. Laboratory studies were designed to elucidate basic chemical, physical, and biological mechanisms important in explaining and modeling lagoon performance. Longterm mass balance studies were conducted to define the fate of waste input and thus total constituent loss from the system. Predictive and interpretive relationships for lagoons based on constant batch loading and continuous loading were derived to describe the supernatant concentration of unaerated lagoons. Methods for determining steady-state concentrations and first order reaction rate constants for oxygen demand, organic carbon, and nitrogen were developed and compared with laboratory and field pilot-scale data. Lagoon liquid from a farm-scale unit was irrigated to nine 9.24 m x 9.24 m Coastal Plain soil-Bermuda grass plots at nitrogen loading rates of 300, 600, and 1,200 kg N/ha./year. Mass balance data were collected to determine the fate of applied waste constituents. EPA CONTACT: Shuyler, L. R.

NEW REPORT ABSTRACTS SECTION

600/2-76-235 PE 1BB043 CONTRACT NO. 68-01-0183

Physical-Chemical Treatment of a Municipal Wastewater Using Powdered Carbon – No. 11 BY D. E. Burns, R. N. Wallace, and D. J. Cook, Envirotech Corporation Salt Lake City, UT

Salt Lake City municipal wastewater was treated in a nominal 100 gpm pilot plant by chemical coagulation-precipitation, powdered activated carbon adsorption and granular media filtration. Chemical-primary sludge was gravity thickened and vacuum filter dewatered. Spent carbon was gravity thickened, vaccuum filter dewatered and thermally regenerated in a fluidized bed furnace. Solids-contact units were used for chemical treatment and carbon contacting. The pilot plant was operated over a 16-month period to demonstrate treatment effectiveness under diurnal flow conditions. Reuse of thermally regenerated carbon was practiced for 3 months. Soluble organic materials were found to be removed by a combination of chemical coagulation, anaerobic biological activity and adsorption on powdersd carbon. Spent powdered carbon was effectively regenerated with an average fixed carbon recovery of 90 percent. Lime and alum-primary sludges were effectively dewatered by vacuum filtration. A high quality effluent was consistently produced, similar to that expected for conventional biological treatment followed by tertiary treatment for phosphorus and suspended solids removal. EPA CONTACT: Westrick, J. J.

600/2-76-237 PE 1HB617 IAG NO. IAG-D5-F468

Control of Sediments, Nutrients, and Adsorbed Biocides in Surface Irrigation Return Flows BY D. L. Carter, and J. A. Bondurant, U.S. Department of Agriculture Kimberly, ID

The technology available for the control of sediments, nutrients, and adsorbed biocides in surface irrigation return flows has been reviewed and evaluated. Some of this technology could be applied immediately to reduce sediment and associated nutrient and biocide concentrations in surface irrigation return flows. Much of the availcble information needs to be integrated to develop improved control practices. New ideas and new control technology are needed. Economic incentive programs are needed to improve acceptance of control technology. The factors controlling erosion and subsequent sediment concentrations in surface irrigation return flows, and how these factors can be managed to reduce erosion and sediment concentrations are reviewed and discussed. Three approaches (1) eliminating surface runoff, (2) reducing or eliminating erosion, and (3) removing sediments and associated nutrients and biocides from surface irrigation return flows, and control measures for each approach are discussed. Research and demonstration needs for improving and developing new control technology are presented. These include simulation modeling of known erosion parameters, the development of improved irrigation systems and methods, the design of improved irrigation water distribution systems, and field management practices. The need for more information on design and operational criteria for sediment retention basins are discussed. EPA CONTACT: Hornsby, A. G.

600/2-76-238 PE 1HB617 GRANT NO. 802933

Conversion of Cattle Manure into Useful Products BY B. S. Dunn, J. D. MacKenzie, and E. Tseng, California, University of Los Angeles, CA

The purpose of the project was to design and build a pyrolysis apparatus for cattle manure and to investigate the potential uses of the pyrolysis by-products. A pyrolysis machine of semi-continuous feed capabilities was designed and built. Various conditions of pyrolysis treatments were investigated and their influence on the amount and composition of the by-products determined. High carbon residues were found to require lower pyrolysis temperatures. The carbon content of these residues appeared to be unaffected by the geographic location of the original manure. Contact with interested parties and appropriate industries who could be prospective users of each of the products was initiated to obtain their technical expertise in evaluating these products. The pyrolysis by-products seem to have some potential industrial applications. These by-products include the solid residue, an oil fraction, and an aqueous fraction. The solid residue may serve as a carbon black substitute or as a filler material in rubber, ink, and paint. The aqueous fraction collected during pyrolysis has been evaluated for fertilizer applications. EPA CONTACT: Kreis, R. D.

600/2-76-239 PE 1HB617 GRANT NO. 802009

Production and Transport of Gaseous NH_3 and H_2S Assocated with Livestock Production BY J. R. Miner, Oregon State University Corvallis, OR

Current livestock production techniques release a large variety of volatile organic compounds to the atmosphere. This release results in complaints due to their odorous nature and has been identified as a source of surface water pollution as these compounds are absorbed from the air. Ammonia has been identified as the compound of greatest concern relative to water pollution and is of considerable interest relative to odor complaints due to its ease of measurement and its relationship to more ordorous gas evolution. Gas sampling and measuring schemes based upon the use of solid absorbents were studied. Use of an absorbent suspended in a stainless steel screen container which could be exposed in an atmosphere to be sampled showed promise. The evolution of ammonia, hydrogen sulfide and odorous volatiles was investigated as a function of beef cattle ration. Addition of essential oil, mint oil, was found to mask the odor of fresh manure. Mint oil was carried in the urine. Ammonia evolution from fresh manure was largely from urine. Fecal contributions became significant only after significant decomposition had occurred. A technique was devised for measuring ammonia evolution rates from surfaces. This measurement proved an accurate measure of anaerobic biological activity and provided a quantitative means for comparing treatment procedures designed to minimize volatile material evolution rates. Evolution rates for a variety of surfaces associated with livestock production enterprises were measured. EPA CONTACT: Kreis, R. D.

NEW REPORT ABSTRACTS SECTION

600/2-76-241 PE 1BB036 IN-HOUSE PROJECT

Acute Toxic Effects of Petroleum Refinery Wastewaters on Readear Sunfish BY J. E. Matthews, and L. H. Myers, Robert S. Kerr Environmental Research Laboratory, EPA Ada, OK

Static bioassays of 24 hours' duration were performed on samples of wastewaters provided by 22 domestic petroleum refiners. These wastewaters represent three types of water discharges prevalent to this industry: process wastewaters prior to dilution with other streams; API separator effluents which are a conjugate of various streams within a refinery; and wastewaters following treatment by activated sludge systems. Bioassays were performed using redear sunfish (*Lepomis microlophus*) as test organisms. Twenty-four hour 50 percent tolerance limits (TL_{50}) of the various wastewaters are compared with results of chemical analyses performed during the same study. Toxicity varied considerably both between refineries and for waste streams from within a single refinery. Results of these analyses and observed behavioral symptoms of distressed fish revealed that ammonia, sulfides, and phenolics, alone or in combination, were major contributors to toxicity exerted in most samples. Three refineries had samples which were more toxic than anticipated based on results of chemical analyses, indicating the presence of other toxic compounds in unknown quantities; e.g., various hydrocarbons. Results of bioassays of samples from various wastewater treatment stages of five refineries with activated sludge treatment systems revealed a decrease in toxicity as the degree of treatment increased indicating a reduction in concentration of contributing biodegradable toxicants. EPA CONTACT: Myers, L. H.

600/2-76-243 PE 1BC611 GRANT NO. 11024 FVQ

Wastewater Flow Measurement in Sewers Using Ultrasound BY R. J. Anderson, S. S. Bell, W. H. Vander Heyden, and W. K. Genthe, Milwaukee, Sewerage Commission of the City of Milwaukee, WI

A new technique for measurement of sewage volume flow utilizing ultrasonic measurements of depth and velocity was demonstrated and evaluated. The new technique, requiring no costly construction for installation, is usable for open channel or partially full measurements. The flow technique can accomplish measurement accuracies from 2 to 5% under conditions of rapidly changing levels, surcharging, and back-up conditions. Two installations were accomplished on existing sewers in the Milwaukee Sewage System, one 12 1/2 feet and the other 5 feet in diameter. A continuous flow record was displayed for each meter and performance of the meter installations was compared with magnetic flow meters at one site and head velocity relations on the other site. Relationship between average volume flow, water level, and average velocity along selected horizontal chords of the sewer cross section were determined. The unit installed on the 5 foot diameter sewers operated for a period in excess of 18 months without failure and has required only routine maintenance. The flow technique provides accurate measurement over a range of depths from 25% to full depth in the sewer and from zero to the full flowing velocity of the fluid in the sewer. No deterioration of ultrasonic transducer probes has been detected indicating their suitability for use in the sewer environment. EPA CONTACT: Risley Jr., C.

600/2-76-244 PE 1BC611 GRANT NO. 802433

Proceedings of Workshop Microorganisms in Urban Stormwater BY R. Field, Municipal Environmental Research Laboratory, EPA Edison, NJ BY V. Olivieri, Johns Hopkins University Baltimore, MD BY E. M. Davis, Texas, University of Houston, TX BY J. E. Smith, Syracuse University Syracuse, NY BY E. C. Tifft Jr., O'Brien and Gere Engineers, Inc. Syracuse, NY

This workshop was held on March 29, 1975 at the USEPA Office, Edison, New Jersey. The aim was to exchange information obtained from USEPA Office of Research and Development, Storm and Combined Sewer Program sponsored projects so as to foster a better understanding of microorganisms in urban storm runoff and combined sewer overflow. Workshop emphasis was placed on the following aspects: (a) procedures for pathogenic microorganism assays, (b) relationship between pathogenic and coliform group microorganisms, (c) disinfection and aftergrowth of microorganisms, and (d) viruses in stormwater. EPA CONTACT: Field, R. 8-342-7503

600/2-76-250 PE 1BC611 IAG NO. IAG-D5-F694

Use of Climatic Data in Estimating Storage Days for Solids Treatment Systems BY D. M. Whiting, National Oceanic and Atmospheric Administration Asheville, NC

Computer programs have been developed to estimate storage needs for Soil Treatment Systems from analyses of daily climatological data. One program uses a set of thresholds for temperature, precipitation and/or snow depth to estimate storage needs in colder regions. A second program is designed for use in high rainfall regions where saturated soil, rather than severe weather, is the limiting condition. Climatological data for a 20- to 25-year period is examined for each case to produce a summury table. This table presents the mean, the standard deviation, the unbiased third moment about the mean, the coefficient of skewness and storage days for recurrence intervals of 5, 10, 25, and 50 years. EPA CONTACT: Thomas, R. E.

NEW REPORT ABSTRACTS SECTION

600/2-76-251 PE 1BC611 CONTRACT NO. 14-12-818

Conventional Tertiary Treatment BY T. P. O'Farrell, and D. F. Bishop, D.C. Pilot Plant, EPA and D.C. Department of Environmental Services Washington, DC

Tertiary treatment on effluent from the EPA-DC Pilot Plant's step aeration activated sludge system included two-stage or single-stage lime clarification, air stripping of ammonia, dual-media filtration, neutralization, and activated carbon adsorption. With a good secondary effluent to the lime clarification units and the dual-media filtration system, the two-stage process produced residual BOD and phosphorus (as P) concentrations of 1.4 mg/1 and 0.09 mg/1, respectively. With fresh carbon, the TOC was less than 3 mg/1 after treatment by carbon adsorption. Single-stage operation with sodium carbonate addition and with a good quality secondary effluent as feed produced an average phosphorus residual of 0.53 mg/1 as P after clarification. Following dual-media filtration, the phosphorus residual as P was reduced to 0.10 mg/1. With poor quality secondary effluent (filamentous growth), the slurry pool in the first-stage solid contactor unit was unstable and produced lower quality effluents. At warm air temperatures (greater than 75°F), 80 percent of the ammonia was air stripped from the effluent of the two-stage lime system. Recalcined lime was recycled to the clarification system without a reduction in the efficiency of the tertiary system. EPA CONTACT: Bishop, D. F.

600/2-76-255 PE 1DC618 CONTRACT NO. 68-03-2134

Evaluation of Liner Materials Exposed to Leachate: Second Interim Report BY H. E. Haxo Jr., and R. M. White, Matrecon, Inc. Oakland, CA

This report presents available information covering the first year's exposure of liner materials to sanitary landfill leachate. Included in the report are descriptions of the monitoring and disassembly of the generators to recover the liner specimens, the results of the testing of the exposed liners, and a discussion of the results. The year's exposure did not result in losses of impermeability in any of the liners. There were losses, however, in the compressive strength of the admix liner materials. There were some losses in the physical properties of some of the polymeric membranes and swelling of most of these membranes. The seams of several lost strength, with the heat-sealed seams holding up best as a group. Among the polymeric membranes, the crystalline types of polyethylene, polypropylene, and polybutylene sustained the least change during the year's exposure. However, these liners, or films, are prone to puncture and tear and are generally difficult to handle in the field. The thermoplastic membranes, chlorinated polyethylene, chlorosulfonated polyethylene (Hypalon), and polyvinyl chloride, tended to swell the most. The vulcanized rubbery liner materials, e.g. butyl and EPDM, changed little during the exposure period but had the lowest initial seam strength. The data presented must be considered as preliminary in an ongoing project; it is premature at this point to make estimates of the service life of the various materials or to make relative comparisons among them for use in a given installation without consideration to costs and to the specifics of the installation. EPA CONTACT: Landreth, R. 8-684-7876

600/2-76-264 PE 1BC611 GRANT NO. 11010 EZJ

Hanover Park Tertiary Studies BY D. R. Zenz, E. Bogusch, C. Lue-Hing, and A. W. Obayashi, Chicago, Metropolitan Sanitary District of Greater Chicago, IL

During a one year study, four tertiary treatment units were tested and evaluated. Three of the units were deep-bed filters which were used to treat secondary plant effluent. The types of filters used were: (1) an upflow filter with a sand media, (2) a downflow gravity filter with mixed-media consisting of anthracite, sand, and garnet, and (3) a downflow pressure filter utilizing dual-media of anthracite and sand. The fourth unit was a continuous flow ion exchanger that employed activated alumina to remove phosphate from microscreened secondary effluent. The filtration studies indicate that comparable effluents were produced by all three filters with filtration rates from 2-6 gpm/ft^2. Filter effluents generally contained about 4-7 mg/1 suspended solids in the above flow range. The results of the ion exchange study indicated that sodium hydroxide successfully regenerated an exhausted activated alumina bed. In a 9-hour test, the ion exchange column removed 73% of the influent phosphorus, using 0.4N sodium hydroxide as the regenerant. EPA CONTACT: Kreissl, J. F. 8-684-7614

600/2-76-266 PE 1BB041 GRANT NO. 803992

Oil Spill and Oil Pollution Reports: May 1976 - July 1976 BY P. Melvin, and H. Ehrenspeck, California, University of, Marine Science Institute Santa Barbara, CA

The May 1976 - July 1976 Oil Spill and Oil Pollution Reports is the eighth quarterly compilation of oil spill events and oil pollution report summaries. Presented in the report are: (a) summaries of oil spill events; (b) summaries and bibliographic literature citations; (c) summaries of current research projects; and (d) patent summaries. EPA CONTACT: Dorrler, J. S.

NEW REPORT ABSTRACTS SECTION

600/2-76-267 **PE 1BB036** **GRANT NO. 803619**

Managing and Disposing of Residues from Environmental Control Facilities in the Steel Industry BY L. Pasztor, and S. B. Floyd Jr., Dravo Corporation Pittsburgh, PA

The report gives results of a study of the management and disposal of residues from environmental control facilities in the steel industry. Information from 13 integrated U.S. steel mills is compared with that found in the literature and with data collected during visits to English, German, and Japanese steel mills, technical and industrial associations, and government agencies. Methods used to recycle dusts and sludges and to regenerate or recover waste acids and oils are covered. Of the approximately 16.6 million tons of residues, 9.1 million tons are recycled, and 7.5 million tons are dumped or stored for later reuse. The major reasons for not recycling the residues, aside from economics, are higher than tolerable tramp element contents (e.g., Zn, Pb, Na, K) or oil content, and the extremely fine residue consistency. The pollution control facilities used and the quantities and properties of the residues generated in the various processes are described. In 1974, the U.S. steel industry produced over 145 million net tons of raw steel. During the same period, over 16 million tons of pollution abatement residues were generated by the industry in 14 different iron and steelmaking subcategories, not including iron and steelmaking slags. EPA CONTACT: Hendriks, R. V. 8-629-8411

600/2-76-268 **PE 1AB604** **CONTRACT NO. 68-02-1323**

Blast Furnance Slips and Accompanying Emissions as an Air Pollution Source BY C. E. Mobley, A. O. Hoffman, and H. W. Lownie, Battelle Columbus Laboratories Columbus, OH

The report gives results of a study to ascertain the severity of blast-furnace slips and their accompanying bleeder-valve emissions as a source of air pollution. It describes factors contributing to the occurrence of hangs and slips in the blast furnace. It discusses the mechanics by which emissions occur from the bleeder valves. It presents data characterizing blast-furnace bleeder-valve emissions, including the frequency and duration of slip-induced bleeder-valve openings and the quantities of gas and dust issuing from open bleeder valves. It includes that: (1) slip-induced bleeder-valve emissions are not an industry- or nation-wide problem; (2) these emissions may constitute an individual furnace and/or local air pollution problem; (3) less total particulates are emitted from this source than from other in-plant air pollution sources; and (4) the frequency of bleeder-valve emissions and, in turn, the severity of the problem have diminished over the last 20 years. The report discusses measures which may reduce the occurrence and/or severity of blast-furnace bleeder-valve emissions. EPA CONTACT: Hendriks, R. V. 8-629-8411

600/2-76-269 **PE 1AB015** **CONTRACT NO. 68-02-1323**

Source Assessment: Glass Container Manufacturing Plants BY J. R. Schorr, D. T. Hooie, P. R. Sticksel, and C. Brockway, Battelle Columbus Laboratories Columbus, OH

The report summarizes results of a study to gather and analyze background information and technical data related to air emissions from glass container manufacturing operations. It covers emissions from three plant areas: raw materials preparation and handling, glass melting, and forming and finishing operations. Melting furnace emissions account for over 95 percent of the total plant emissions. The major pollutants are NO_x, SO_x, and submicron particulates consisting mainly (over 90 percent) of mineral sulfates. NO_x has the largest emission factor (3 g/kg) with annual emissions of 36.5 x 10 to the 9th power g. Compared with national emissions from stationary sources, NO_x emissions from glass melting furnaces contribute 0.34 percent of the total. Source severity factors determined by this study were 0.38 for NO_x, 0.56 for SO_x, and 0.035 for particulates, with others being less than 0.01. Sourse severity is a measure of the potential environmental effect of air emissions and is the ratio of the maximum average ground level concentration to the primary ambient air quality standard for criteria pollutants. EPA CONTACT: Wooldridge, E. J. 8-629-2547

600/2-76-270 **PE 1AB604** **CONTRACT NO. 68-03-0456**

Converting Chlorohydrocarbon Wastes by Chlorolysis BY J. K. Shiver, Repro Chemical Corporation Washington, DC t + 1 The report gives results of an assessment of the magnitude of the waste chlorohydrocarbon problem in the U.S., and a study of the applicability of the conversion of this waste by chlorolysis as a means of resolving the problem. An estimated 86,400 metric tons per year of chlorohydrocarbon waste is generated in the U.S. A portion of this waste is treated by chlorolysis to solvents, and by incineration. The balance is disposed of by deep well injection or burial. The identified waste is a suitable feedstock for a chlorolysis operation if it is pretreated to remove particulate materials and moisture. Geographically, the waste is generated primarily along the Gulf Coast, from Corpus Christi to New Orleans. The Gulf Coast concentration indicates that a regional waste disposal facility (including a chlorolysis unit, a waste pretreatment unit, and a conventional incineration unit) would be viable. Preparation of a design and firm capital estimate is recommended as the next step in an overall program leading to such a regional facility. EPA CONTACT: Samfield, M.

NEW REPORT ABSTRACTS SECTION

600/2-76-272 PE 1BC611 GRANT NO. 11020 DXH

Demonstration of Void Space Storage with Treatment and Flow Regulation K. R. Rohrer Associates, Inc. Akron, OH

The purpose of this project was to demonstrate and evaluate the feasibility of an underground void space storage tank, in containing and regulating storm overflows from a combined sewer thus reducing the pollution loads discharged to the receiving water body. System design, construction, and two years operation were conducted in the study. The prototype was constructed in Akron, Ohio with a combined sewer drainage area of 76.3 hectare (188.5 acres). The excess combined sewer flows were fed by gravity into the 3.8×10^6 liter (1 MG) void space retention tank. The tank is of an excavated hopper shape, lined with an impermeable membrane and filled with an inert media. Storage of the waste water is in the void space of the media. After the storm event, the stored stormwater was gravity fed into the interceptor sewer for subsequent treatment. The underground facility was a dual usage concept. In addition to collecting, chlorinating, and detaining potential combined sewer overflows, the facility's top surface could be made usable as a park or recreational grounds. EPA CONTACT: Smith, A.

600/2-76-273a PE EHE624 CONTRACT NO. 68-02-1883

Experimental and Theoretical Studies of Solid Solution Formation in Lime and Limestone SO_2 Scrubbers—Volume I. Final Report BY B. F. Jones, P. S. Lowell, and F. B. Meserole, Radian Corporation Austin, TX

The report gives results of a theoretical and experimental study to characterize the coprecipitation of calcium sulfate with calcium sulfite hemihydrate. A coprecipitation product had been suggested to explain the mechanism by which sulfate could be precipitated from a scrubber solution subsaturated with respect to calcium sulfate. Lime and limestone SO_2 scrubbing systems with oxidation rates below 20% had been operated long-term at steady state with liquors subsaturated with respect to all known calcium sulfate solid forms and yet sulfate was measured in the solids. The existence of a calcium sulfate/calcium sulfite solid solution has been confirmed experimentally and a theoretical formulation has been established. Calcium sulfite hemihydrate was precipitated under controlled laboratory conditions from solutions subsaturated in calcium sulfate. Specific chemical analysis and infrared spectroscopic techniques were used to identify sulfate in the solids. The precipitate's sulfate content was studied as a function of the relative saturation of calcium sulfate and the precipitation rate of calcium sulfite hemihydrate. Also, the effects of high magnesium concentrations and limestone dissolution and the sulfate content of the solids were measured. EPA CONTACT: Borgwardt, R. H. 8-629-2234

600/2-76-273b PE EHE624 CONTRACT NO. 68-02-1883

Experimental and Theoretical Studies of Solid Solution Formation in Lime and Limestone SO_2 Scrubbers—Volume II. Appendices BY B. F. Jones, P. S. Lowell, and F. B. Meserole, Radian Corporation Austin, TX

The report gives results of a theoretical and experimental study to characterize the coprecipitation of calcium sulfate with calcium sulfite hemihydrate. A coprecipitation product had been suggested to explain the mechanism by which sulfate could be precipitated from a scrubber solution subsaturated with respect to calcium sulfate. Lime and limestone SO_2 scrubbing systems with oxidation rates below 20% had been operated long-term at steady state with liquors subsaturated with respect to all known calcium sulfate solid forms and yet sulfate was measured in the solids. The existence of a calcium sulfate/calcium sulfite solid solution has been confirmed experimentally and a theoretical formulation has been established. Calcium sulfite hemihydrate was precipitated under controlled laboratory conditions from solutions subsaturated in calcium sulfate. Specific chemical analysis and infrared spectroscopic techniques were used to identify sulfate in the solids. The precipitate's sulfate content was studied as a function of the relative saturation of calcium sulfate and the precipitation rate of calcium sulfite hemihydrate. Also, the effects of high magnesium concentrations and limestone dissolution on the sulfate content of the solids were measured. EPA CONTACT: Borgwardt, R. H. 8-629-2234

600/2-76-274 PE 1AB014 GRANT NO. 803283-01

Analysis of Test Data for NO_x Control in Coal-Fired Utility Boilers BY O. W. Dykema, Aerospace Corporation Los Angeles, CA

The report describes the analyses of a large quantity of emissions, operating conditions, and boiler configuration data from full-scale, multiple-burner, electric-generating boilers firing coal fuel. Objectives of the study include: (1) evaluation of the effects of combustion modifications on NO_x emissions, in fundamental combustion terms; and (2) evaluation of techniques for further reductions in NO_x emissions. The report includes the following, pertaining to coal-fired utility boilers: (1) discussion of the major sources of NO_x emissions; (2) parametric investigations of the effects on NO_x emissions of two-stage combustion, burners out of service, combustion air temperature, and excess air reduction; (3) discussion of probable short- and long-term hardware and operating condition modifications likely to yield further significant reductions in NO_x emission in coal-fired boilers; and (4) general comparisons of NO_x reduction techniques in utility boilers firing coal, oil, and natural gas fuels. Boiler firing types included single-wall, opposed, and tangential configurations. EPA CONTACT: Hall, R. E. 8-629-8411

NEW REPORT ABSTRACTS SECTION

600/2-76-276 PE 1BB043 CONTRACT NO. 68-03-0144

Selected Applications for Instrumentation and Automation in Wastewater Treatment Facilities BY A. E. Molvar, Raytheon Company Portsmouth, RI

The application of modern control systems to the operation of wastewater-treatment plants is discussed. Control strategies for the commonly used wet- and dry-weather treatment processes and their collection systems are described. Whenever possible, the benefits derived from, as well as the operating problems associated with, the actual or proposed control strategies are documented. Cost/benefit analysis indicates that many untried feed forward mass proportional control schemes are economically attractive because of the low payback periods. This study concludes that despite current concepts, the smaller (1 to 5 mgd) plants can afford and need significantly greater amounts of automatic control. A lack of reliable field-proven analytical sensors for important parameters appears to be the principal obstacle impeding the implementation of more sophisticated control strategies. Centralized control with semigraphic display should be used in treatment plants since it saves on operating labor, improves operation, and increases the safety of wastewater treatment. Automatic data acquisition systems are cost effective and should be used in medium and large sized plants. Direct digital control and computerized control can only be economically justified in large dry-weather treatment plants and large storm-water control networks. EPA CONTACT: Roesler, J. F. 8-684-7714

600/2-76-277 PE 1AD605 CONTRACT NO. 68-02-0766

Remote Monitoring of Nitric Oxide by Gas-Filter Correlation Techniques BY D. E. Burch, and D. A. Gryvnak, Aeronutronic Ford Corporation Newport Beach, CA

The feasibility of remotely monitoring the concentration of Nitric Oxide (NO) in the effluent of industrial stacks has been investigated analytically and experimentally in the laboratory. The type of instrument considered employs two or more gas-filter cells that contain different amounts of NO. Radiant energy emitted by the hot gas in the effluent is measured after it has passed either through one of the gas-filter cells or through a neutral density filter. By comparing the amounts of energy received through each of the filters, it is possible to determine the concentration of NO in the presence of a moderate amount of continuum-emitting material such as small particles. A simple, single-line spectral model served as the basis for the analytical work. Heated cells containing NO + N_2 or H_2O + N_2 simulated an industrial stack for the laboratory experiments. Interference by hot H_2O in the effluent and cold H_2O in the atmospheric path causes the most serious uncertainties in the measurements for many types of stacks. EPA CONTACT: Herget, W. F. 8-629-2216

600/2-76-278 PE 1AB012 ROAP/TASK 21 ADL 034 CONTRACT NO. 68-02-1866

Foreign Air Pollution Research in Fine Particulates BY A. L. Benson, Arthur D. Little, Inc. Cambridge, MA

The report presents unpublished fine particulate measurement and control information and information not readily available to the researcher, generated during the period 1971-76 in Australia, Canada, Japan, and the USSR. The information is used as a basis for identifying new concepts in the abovementioned area. Approximately 700 documents are compiled with abstracts. Full-text translations are provided for special-interest areas. EPA CONTACT: Pekar, J. 8-629-2547

600/2-76-279 PE 1AB013 ROAP/TASK 21 ADE IN-HOUSE PROJECT

Equilibrium Partial Pressure of Sulfur Dioxide in Alkaline Scrubbing Processes BY D. K. Oestreich, Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC t + 1 The report gives results of IERL-RTP in-house studies in which equilibrium partial pressure of SO_2 was measured as a function of pH, temperature, and concentration of sulfur (IV) on various scrubber liquors. These studies were done for potassium-, sodium-, and citrate-based scrubbing systems. It is shown that equations developed by earlier workers for predicting SO_2 partial pressures are incorrect. Theoretical expressions are developed to relate the equilibrium partial pressure of SO_2 to the important scrubber parameters. These expressions are experimentally validated at the 90 percent confidence level. EPA CONTACT: Oestreich, D. K.

600/2-76-280 PE 1AB012 ROAP/TASK 21 ADM 011 CONTRACT NO. 68-02-0273

Particulate Sizing Techniques for Control Device Evaluation: Cascade Impactor Calibrations BY K. M. Cushing, G. E. Lacey, J. D. McCain, and W. B. Smith, Southern Research Institute Birmingham, AL

The report gives results of a calibration study to determine sizing parameters and wall losses for five commercially available cascade impactors. A vibratingorifice aerosol generator was used to produce monodisperse ammonium fluorescein aerosol particles 15 to 1 micrometers in diameter. A pressurized Collison Nebulizer system was used to disperse Dow Corning polystyrene latex (PSL) spheres 2 to 0.46 millimeters in diameter. When ammonium fluorescein was used, the mass collected by each impactor surface was determined using absorption spectrophotometry of washes from the various surfaces. When sizing with the PSL spheres, a Climet Instruments Model 208A Particle Analyzer was used to determine particle number concentrations at the inlet and the outlet of the test impactor. Results are reported showing stage collection efficiency as a function of the square root of the Stokes number, stage collection efficiency as a function of particle size, and impactor wall losses (total, nozzle, and inlet cone) as a function of particle size. It has been determined that the values of the Stokes number for the 50% collection efficiency are not generally the same for each impactor stage. A table of these values is presented. Published theories do not successfully predict these values, so empirical calibration is required before these devices can be used accurately in the field or laboratory. EPA CONTACT: Harris, D. B. 8-629-2557

NEW REPORT ABSTRACTS SECTION

600/2-76-281 PE 1AB015 ROAP/TASK 21 AQR 005 CONTRACT NO. 68-02-1319

Desulfurization of Steel Mill Sinter Plant Gases BY G. D. Brown, R. T. Coleman, J. C. Dickerman, and P. S. Lowell, Radian Corporation Austin, TX

The report gives results of an evaluation of the technical and economic feasibility of using limestone scrubbing technology to control sinter plant emissions. Data from Soviet and Japanese sinter plants employing limestone scrubbing technology were used to develop a realistic design basis. A conceptual process design was developed and used to prepare economic estimates. Results of the process design indicate that control of sinter plant emissions by limestone scrubbing is technically feasible. Economic evaluations show that limestone scrubbing will increase the cost of producing sinter by about $1.82 per metric ton of product sinter for a standard sinter plant operation. For a sinter plant with a windbox gas recirculation system, the cost increase would be about $1.44 per metric ton of product sinter. EPA CONTACT: Plaks, N. 8-629-2557

600/3-76-069 PE 1BA608 GRANT NO. 800355

Assays of Toxic Pollutants by Fish Blood BY W. A. Curby, R. D. Winick, and E. C. Moy, Sias Research Laboratory Brookline, MA

We have developed a biological multichannel analyzer which, using a sensor that operates on the Coulter Principle, measures and distributes mixed cell populations by cell size. It provides an analog distribution and digital printed readout for future analysis. Although primarily a pulse height analyzer (applied successfully to studying bacteria, mammalian blood and inert particles) it operates as a pulse shape analyzer if the instant at which each pulse height is read is varied. This technique, applied to the peripheral whole blood from freshly sacrificed *Fundulus heteroclitus* shows the alterations with time and the variations caused by trace amounts of cadmium and copper in the aquatic environment. The size frequency distribution patterns of each trace element environment differ from each other, and each, markedly from the norm. We have investigated and recorded the response of *F. heteroclitus* whole blood cells from fishes living in several aquatic environments of fixed pH and dissolved oxygen and temperature. We compared these data with those obtained from fish subjected to dissolved traces of chemical pollutants. EPA CONTACT: Hodgkiss, W. S.

600/3-76-077 PE 1BA608 IN-HOUSE PROJECT

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers BY D. F. Samuelson, Environmental Research Laboratory, EPA Corvallis, OR

Seasonal variation in water quality was compared for the Western Fish Toxicology Station (WFTS), Corvallis, OR, the adjacent Willamette River and approximately 40 major western Oregon rivers from 1972 through 1974. Water temperature patterns of the Willamette River and WFTS well were similar (range, 4.6-20.OC). While both displayed seasonal trends, well water lagged 7-10 days behind the river in both temperature increases and decreases. Dissolved oxygen values in both the river and well water were inversely related to temperature. Average dissolved oxygen concentrations were higher in the river (10.4 mg/1) than in the well water (4.1 mg/1). Hydrogen ion concentration (pH) was low in the well water (range, 6.6-7.0), compared to the river (range, 7.0-7.8). River water had a mean hardness and alkalinity of 22 mg/1 and 23 mg/1 respectively, while well water ranged between "soft to moderately hard" (mean hardness, 34 mg/1; mean alkalinity, 31 mg/1). High Willamette River discharges (above Corvallis) were followed by a 7-10 day lag in corresponding sharp peaks of total hardness, alkalinity, and certain cations and anions in the well water. Major cation and anion concentrations were low overall. Trace metals were found to be at near detection limits. River iron and manganese concentrations were approximately 10 times greater than those found in the well. River zinc had a mean of 9.4 micrograms/1, while the well water mean concentration was 5.1 micrograms/1. EPA CONTACT: Samuelson, D. F.

600/3-76-094a PE 1BA608 GRANT NO. 800537-02

Algal Nutrient Availability and Limitation in Lake Ontario During IFYGL—Part I. Available Phosphorus in Urban Runoff and Lake Ontario Tributary Waters BY W. F. Cowen, U.S. Army Medical Bioengineering Research & Development Lab Frederick, MD BY G. F. Lee, Texas, University of Richardson, TX

Samples of Madison urban runoff, precipitation from Madison and New York State were analyzed for various forms of phosphorus to estimate the algal-available fraction of each of these P forms. Urban runoff particulate P forms from Madison runoff showed acid extractable inorganic P were 22 to 27 and 13 to 17% of particulate P, respectively. Runoff from urban areas in the Genesee R. basin (N.Y.) showed acid, base, and resin extractable inorganic P in the ranges of 30 to 48, 18 to 30 and 11 to 25% of particulate P, respectively, in general agreement with the Madison samples. Inorganic P extracted from particulate P by resin in long-term aerobic dark incubations was similar to that extracted by the resin in short-term tests, indicating that physical and chemical rather than microbial mineralization processes were probably the key factors regulating the release of inorganic P from the runoff particles to the solution phase. EPA CONTACT: Thomas, N.

NEW REPORT ABSTRACTS SECTION

600/3–76–095   PE 1BA608   GRANT NO. 802821

Biological, Chemical and Physical Relationships in the Straits of Mackinac BY C. L. Schelske, E. F. Stoermer, J. E. Gannon, and M. S. Simmons, Michigan, University of Ann Arbor, MI

Three cruises were conducted from August to October 1973 in the vicinity of the Straits of Mackinac. Environmental conditions were influenced by the net transport of water from Lake Michigan to Lake Huron, the oscillatory flow of water produced by seiches between the two lakes and the hypolimnetic transport of water from Lake Huron to Lake Michigan during periods of thermal stratification. Different water masses resulted from the mixing of waters from Lake Huron, Lake Michigan and Lake Superior and were identified from single parameters, particularly silica, nitrate, pH, temperature and specific conductance, from cluster analysis of chemical and physical parameters and from ordination analyses of phytoplankton and zooplankton assemblages. Lake Michigan waters transported through the Straits represent a diffuse and relatively small phosphorus enrichment for Lake Huron, but were depleted in silica and nitrate compared to Lake Huron. In August and September phytoplankton in the silica depleted waters from Lake Michigan were dominated by blue-green algae. The phytoplankton assemblages in the Straits were distinct from those in the open waters of Lake Michigan and Lake Huron. Zooplankton species composition was similar to the 50 stations sampled, but cladocerans were proportionately more prevalent in the more eutrophic waters of Lake Michigan than were calanoid copepods in Lake Huron. It was concluded that water from Lake Michigan had a subtle deleterious effect on water quality in Lake Huron. EPA CONTACT: Thomas, N.

600/3–76–096   PE 1BA608   IN-HOUSE PROJECT

Cadmium and Zinc Toxicity to Jordanella floridae BY R. L. Spehar, Environmental Research Laboratory, EPA Duluth, MN

Cadmium and zinc toxicity to the flagfish (*Jordanella floridae*) was determined on the basis of 96-hr median lethal concentrations (LC50) and significant decreases ($P = 0.05$) in survival, growth, and reproduction over the complete life cycle of the fish. The 96-hour LC50 values for cadmium and zinc to juvenile flagfish were 2,500 and 1,500 micrograms/liter, respectively. In chronic tests, reproduction was the most sensitive indicator of cadmium toxicity and was inhibited at 8.1 micrograms/liter. Tissue-concentration analysis showed that fish exposed to concentrations of 1.7 micrograms/liter and above accumulated significantly greater amounts of cadmium than those in the controls. In zinc tests, survival of larvae (not exposed as embryos) and growth of females were the most sensitive measure of zinc toxicity and were reduced at respective concentrations of 85 and 51 micrograms/liter. Significant uptake of zinc occurred in fish exposed to concentrations of 47 micrograms/liters and above. The lowest cadmium and zinc concentrations causing adverse effects to the flagfish were similar to those affecting other fish species. Application factors for both metals were similar to those reported for cadmium exposed bluegills (*Lepomis macrochirus*) and zinc exposed fathead minnows (*Pimephales promelas*) in hard water. EPA CONTACT: Spehar, R. L. 8–783–9519

600/3–76–097   PE 1BA608   IN-HOUSE PROJECT

Acute Toxicity of Selected Organic Compounds to Fathead Minnows BY V. R. Mattson, J. W. Arthur, and C. T. Walbridge, Environmental Research Laboratory, EPA Duluth, MN

Static nonrenewal laboratory bioassays were conducted with 26 organic compounds commonly used by industry. The selected compounds represented the five following chemical classes: acids, alcohols, hydrocarbons, ketones and aldehydes, and phenols. Juvenile fathead minnows (*Pimephales promelas*) were the test animal, and test duration was limited to 96 hr. Lake Superior water served as the diluent source for all test compounds. Additional tests were conducted with a reconstituted diluent water for five compounds. The alcohol compounds were generally 10 to 100 times less toxic than chemicals tested in the other four chemical classes. Compounds in the other four classes had a similar toxicity range. The most lethal chemical tested was pentachlorophenol (96-hr LC50 of 0.6 mg/1.) and the least lethal was ethanol (96-hr LC50 of 13,480 mg/1.). Most of the minnow deaths occurred during the first 24 hr. Comparative chemical tests in the two diluent waters gave similar lethal responses. EPA CONTACT: Mattson, V. R. 8–783–9591

600/3–76–099   PE 1BA608   CONTRACT NO. 68–01–0738

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows BY K. J. Macek, M. A. Lindberg, S. Sauter, K. S. Buston, and P. A. Costa, EG&G Bionomics Wareham, MA

Maximum acceptable toxicant concentrations (MATC's) for each pesticide for both species were estimated by measuring survival, growth and reproduction success as indicators of toxic effects. The MATC for acrolein was estimated to be > 16.9 and < 33.6 micrograms/liter for daphnids and > 11.4 and < 41.7 for fathead minnows, those estimated for heptachlor were > 12.5 and < 25.0 micrograms/liter for daphnids and > 0.86 and < 1.84 micrograms/liter for fathead minnows, those estimated for endosulfan were > 2.7 and < 7.0 micrograms/liter for daphnids and > 0.2 and < 0.4 micrograms/liter for fathead minnows, and those estimated for trifluralin were > 2.4 and < 7.2 micrograms/liter for daphnids and > 1.9 and < 5.1 micrograms/liter for fathead minnows. EPA CONTACT: Jarvinen, A.

NEW REPORT ABSTRACTS SECTION

600/3-76-106 PE 1BA031 GRANT NO. 801245

Studies on the Reclamation of Stone Lake, Michigan BY T. L. Theis, and J. V. DePinto, Notre Dame, University of Notre Dame, IN

This report contains information relating to two factors: (1) the effects of domestic pollution abatement on an eutrophic lake, and (2) investigations into methods of reclaiming such lakes, especially through the use of particulate materials which retard pollutant release from sediments. The study lake, Stone Lake, has been monitored for approximately ten years from the time of pollution abatement. Results indicate that the sediments are major pollutant sources during stratified periods and that for such lakes to achieve meaningful improvements in water quality in a reasonable length of time, a series of external manipulations is often needed. Certain types of fly ash, a particulate waste product of coal combustion, was shown, in laboratory studies, to possess properties capable of precipitating orthophosphate from overlying waters and subsequently "sealing" the phosphorus within the sediments for long periods of time. A lake such as Stone Lake could thus be made permanently of semi-permanently, phosphorus limited, thereby altering the successional pattern previously indicated and significantly reducing the overall standing algal crop. EPA CONTACT: Schults, D. W. 8-420-4776

600/3-76-107 PE 1AA603 CONTRACT NO. 68-02-1296

Oxidant-Precursor Relationships During Pollutant Transport Conditions – An Outdoor Smog Chamber Study BY L. A. Ripperton, W. C. Eaton, and J. E. Sickles II, Research Triangle Institute Research Triangle Park, NC

The formation of ozone under simulated conditions of pollutant transport was studied in a group of four 27-cubic-meter outdoor smog chambers. The chambers were constructed of 5 mil FEP Teflon on aluminum frames. The initial changes in the smog chambers were irradiated for three days by natural sunlight. Simulation of transport was accomplished by progressively diluting the contents of the chambers with clean air. The analogy between the chemical behavior of chamber simulations and nonurban high-zone (i.e., 0.08 ppm) systems in the field was good. On the second and third days, the initial charges in the chambers generated ozone concentrations greater than the National Ambient Air Quality Standard for photochemical oxidant (0.08 ppm). The initial charge of nonmethane hydrocarbon (NMHC) ranged from 1.0 to 10.0 ppmC; nitrogen oxides (NO_x) ranged from 0.100 to 1.000 ppm. Therefore, initial ratios of NMHC/NO_x varied from 7 to 20. On the second and third days in the chambers, concentrations of NO_x ranged from 0.001 to 0.053 ppm; NMHC ranged from 0.33 to 3.78 ppmC. The resulting NMHC/NO_x ratios varied from 16 to 610. EPA CONTACT: Bufalini, J. J.

600/3-76-108 PE 1AA603 GRANT NO. 800833

Atmospheric Freons and Halogenated Compounds BY A. Appleby, Rutgers University New Brunswick, NJ

Ambient levels of atmospheric Freons, halogenated hydrocarbons, and SF_6 were measured at various locations in the U.S.A. Compounds such as $CC1_3F$, $CC1_2F_2$, CH_3-$CC1_3$, and $CC1_4$ were ubiquitious and generally measured at sub ppb levels. Tropospherically reactive compounds such as C_2C1_4 and $CHC1CC1_2$ were frequently measured; other compounds were measured where a reasonable source was known. A novel pulsed flow coulometry gas chromatographic analysis along with other requisite analytical and calibration procedures were developed and used. Laboratory irradiation simulations established the tropospheric stability of $CC1_3F$, CCl_2F_2, CH_3CC1_3, $CC1_4$, $CC1_2FCC1F_2$, the reactivity of the chlorinated ethylenes, and the stratospheric reactivity of $CC1_3F$, $CC1_4$, and $CC1_2F_2$. Adventitious labelling of air masses with halogenated compounds was used to demonstrate urban ozone transport to rural areas. EPA CONTACT: Bufalini, J. J.

600/3-76-109 PE 1AA603 CONTRACT NO. 68-02-2241

Transport of Oxidant Beyond Urban Areas – Compilation of Data for the New England Study, 1975 BY C. W. Spicer, D. W. Joseph, and G. F. Ward, Battelle Columbus Laboratories Columbus, OH

A study of oxidant transport was conducted in New England over a 6-week period, from July 15 to August 22, 1975. A well equipped mobile laboratory was set up at a rural Connecticut airport, and a long-range, twin-engine airplane was outfitted for wide area and vertical aerial sampling. The mobile laboratory was equipped to continuously monitor O_3, NO, NO_2, NO_x, CH_4, C_2H_2, C_2H_4, C_2H_6, non-methane hydrocarbon, fluorocarbon 11 (F-11), $CC1_4$, CO, temperature, solar intensity, relative humidity, wind speed, wind direction, and barometric pressure. The airplane was outfitted to continuously monitor ozone, nitric oxide, and temperature and to collect air samples in Tedlar bags. The bag samples were analyzed for Fluorocarbon 11 (F-11), CH_4, NMHC, CO, C_2H_2, C_2H_4, C_2H_6, and $CC1_4$. Forty-four monitoring flights were conducted during the field study; each flight averaged approximately 3 hours and cover between 400–500 miles. Flights were also made to Ohio, Canada, and 250 miles out over the ocean. The experimental methods used during the study are described and the compiled data are presented. EPA CONTACT: Bufalini, J. J.

NEW REPORT ABSTRACTS SECTION

600/3-76-110 PE 1AA603 CONTRACT NO. 68-02-1919

Midwest Interstate Sulfur Transformation and Transport Project: Aerial Measurements of Urban and Power Plant Plumes, Summer 1974 BY W. H. White, J. A. Anderson, W. R. Knuth, D. L. Blumenthal, J. C. Hsiung, and R. B. Huscr, Meteorology Research, Inc. Altadena, CA

A portion of the research activities of the Midwest Interstate Sulfur Transformation and Transport Project (Project MISTT) during the summer of 1974 is documented. Using a light plane equipped with instruments for measuring air pollutants and meteorological parameters, investigators mapped the three-dimensional distribution of aerosols and pollutant gases originating in the St. Louis area. Each day's flight plan was designed to characterize a large pollutant plume at discrete distances downwind from its source. The plume from the coal-fired power plant at Labadie, Missouri was followed out to 45 km. Secondary aerosol production within the plume was documented. The estimated average conversion rate for sulfur dioxide to sulfate was about three percent/hour at the distances sampled. The overall removal rate of SO_2 was too small to detect, and no net production of ozone was observed. Large pollutant plumes were also identified downwind of central St. Louis and the Wood River refineries. These urban-industrial plumes were followed out to 60–70 km, where they were characterized by elevated concentrations of ozone and light-scattering aerosols. EPA CONTACT: Wilson, W. E.

600/3-76-111 PE 1DB064 IAG NO. IAG-D5-F765

Design Considerations for Pulp and Paper-Mill Sludge Landfills BY R. H. Ledbetter, U.S. Army Engineer Waterways Experimentation Station Vicksburg, MS

This report presents procedures for the engineering design and control of pulp and paper-mill sludge disposal landfills. Engineering design will allow more efficient use, thereby contributing to economic and environmental benefits. To form the basis for engineering design of sludge material, the methodologies and theories of soil mechanics were applied. The methodologies should be applicable to most compositions of sludge materials. Some sludge materials may have peculiarities associated with testing, field workability, and behavior. However, from accumulated experiences of applying the procedures of this manual, the manual can be adjusted and expanded. This report is specifically written for pulp and paper-mill personnel of technical background but with little or no exposure to the soil mechanics discipline. The procedures are such that these individuals can rationally approach a landfill operation to attain efficiency and optimization. This report does not present a rigorous treatment or analysis of sludge material, but it does give the above-mentioned individuals the procedures for determining good approximations of sludge behavior. Individuals interested in more rigorous and theoretical analysis of sludge behavior should consult the list of references. EPA CONTACT: Landreth, R. E. 8-684-7876

600/4-76-033 PE 1BA027 IN-HOUSE PROJECT

Evaluation of a Prototype Instrument for Determining Phosphorus in Water BY T. B. Hoover, and J. M. Long, Environmental Research Laboratory, EPA Athens, GA

A second-generation flame spectrometer for the direct determination of phosphorus in water was evaluated. Response to phosphorus in the form of phosphoric acid was linear from 0.5 to 16 ppm phosphorus. The relative standard deviation was approximately constant at 20 percent over the range. River water and municipal sewage effluent were analyzed after the addition of phosphoric acid (1.8 ppm P) and filtration through a series of microporous membranes. Recovery of the added phosphorus averaged 70 percent for the river water and 95 percent for the sewage effluent after treatment with cation exchange resin. There was no clear relation to filter pore size in the range 5 to 0.2 micrometers. Analyses of the higher range EPA Nutrient Reference Samples (approximately 0.5 ppm P) agreed within one standard deviation with the reference values, both for inorganic and total phosphorus. The lower concentration range samples (approximately 0.1 ppm P) gave barely detectable signals. EPA CONTACT: Hoover, T. B. 8-289-3524

600/4-76-034 PE 1BA027 GRANT NO. 800359-02

Biological Electrodes Specific for Phosphate and Nitrite Ions BY G. G. Guilbault, New Orleans, University of New Orleans, LA

Biological electrodes have been developed for the selective analysis of phosphate and nitrate ions at micro-levels. A phosphate electrode was constructed by using two enzymes, alkaline phosphatase and glucose oxidase which were immobilized and mounted on the surface of the Platinum electrode. The competitive inhibition of phosphate ion on alkaline phosphatase slows down the hydrolysis of glucose-6-phosphate to glucose which is subsequently used by glucose oxidase as a substrate in the presence of molecular oxygen. The phosphate ion concentration in the reaction mixture was found to be proportional to the oxygen consumption. The assay of nitrite was accomplished with the use of nitrite reductase which catalyzes the reduction of nitrite into ammonia. Nitrite in the range of 10^{-4}M-10^{-2}M could be accurately determined with either soluble or immobilized enzyme using an air-gap electrode as sensor. Preparations of benzidine phosphate and hexammino cobalt nitrate in silicone rubber for liquid ion exchange and triphenyltin electrode have been attempted and results obtained were unsatisfactory due to their poor selectivity. EPA CONTACT: Hoover, T. B. 8-289-3524

NEW REPORT ABSTRACTS SECTION

600/4–76–046 PE 1BA027 GRANT NO. 801106

Computer Interpretation of Pollutant Mass Spectra BY F. W. McLafferty, Cornell University, Department of Chemistry Ithaca, NY

The objective of this research was to improve systems for computer examination of the mass spectra of unknown pollutants. For this we have developed a new probability based matching (PBM) system for the retrieval of mass spectra from a large data base, and have substantially improved the interpretation of unknown mass spectra using the self-training interpretive and retrieval system (STIRS). PBM was designed as a prefilter to STIRS; if an unknown mass spectrum can be identified with a sufficiently high confidence by PBM, interpretation of the spectrum using STIRS is not necessary. The PBM system provides more efficient retrieval than presently accepted systems; it incorporates a "reverse search" algorithm, and through the use of weighted mass and abundance data provides a statistically valid prediction of the confidence of the matches found. STIRS has been improved to give a confidence-level prediction of the presence of ~ 200 particular substructural features in the unknown molecule. Extensive studies have been made to improve the data selection for most data classes used by STIRS; resulting in a much higher level of overall system performance. Operation efficiencies of both PBM and STIRS have been improved dramatically so that both require less than 1 minute on a laboratory PDP-11/45 computer. STIRS has been made available for outside use by long-distance phone connections to this PDP-11/45, and recently both PBM and STIRS have been made operational on the Cornell IBM-370/168 so that these are available internationally over the TYMNET computer network system. EPA CONTACT: McGuire, J. M.

600/4–76–048 PE 1HA323 GRANT NO. 803172

Evaluation of Instrument for the Determination of Phenol in Water BY L. S. Smith, Central State University, Department of Chemistry Wilberforce, OH

The Spectra Product's PH-2 Phenol Instrument was evaluated to determine its applicability to water and wastewaters. The results show that the determinations of phenol in water and wastewaters can be obtained with an accuracy of ±5% in the range of 0.05 to 50.0 ppm and with an accuracy of ±12% in the range of 0.005 to 0.05 ppm. The PH-2 instrument gave more precise results than the 4-AAP methods and can be used to detect para substituted phenols. As with the 4-AAP method, the PH-2 instrument method cannot be used to detect all substituted phenols quantitatively. EPA CONTACT: Gales, M.

600/4–76–049 PE 1HD621 CONTRACT NO. 68–03–2075

Handbook for Sampling and Sample Preservation of Water and Wastewater BY K. R. Huibregtse, and J. H. Moser, Envirex, Inc. Milwaukee, WI

This research program was initiated with the overall objective of providing guidelines for sampling and sample preservation of waters and wastewaters. Information obtained from a review of the literature and the results of a survey of field practices provides the basis for guidelines in general sampling techniques, automatic samplers, flow measuring devices, a statistical approach to sampling, preservation of physical, chemical, biological and radiological parameters, and sampling procedures for waters emanating from municipal, industrial, and agriculture sources. Sampling procedures for surface waters and sludges are also included. This report is not an official EPA manual. Rather, it is a research report which is but one of a series being used as an input to develop EPA Manuals and Guidelines. EPA CONTACT: Berg, E. L.

600/4–76–051 PE 1HD621 IN-HOUSE PROJECT

Survey of Commercially Available Automatic Wastewater Samplers BY R. P. Lauch, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

This is a survey of commercial automatic wastewater samplers that are currently available. Pertinent characteristics for wastewater samplers known to the author are tabularized. Additional comments including short descriptions of each manufacturers' equipment are given. Manufacturers names and addresses are included. A literature review of the more recent reports on automatic wastewater samplers is also included. EPA CONTACT: Lauch, R. P. 8–684–7322

600/4–76–052 PE 1HD621 CONTRACT NO. 68–03–2333

Development of Suspended Solids Quality Control and Performance Evaluation Samples BY E. L. Stover, and P. J. Marks, Roy F. Weston, Inc. West Chester, PA

A two phase study was conducted to develop a synthetic suspended solids sample for use as quality control check and performance evaluation within environmental monitoring laboratories. The first phase consisted of a feasibility study to determine compounds that exhibited the optimum physical and chemical properties for synthetic suspended solids samples, and the second phase involved production of suspended solids samples in individual containers. Compounds investigated that met all the design criteria included rayon fibers and Fuller's earth. A total of 10,000 quality control samples consisting of rayon fibers, Fuller's earth and anthracite coal were packaged for completion of the project. Anthracite coal was packaged to demonstrate the variability in the subsampling step of the suspended solids test method with certain types of solids. EPA CONTACT: Berg, E. L. 8–684–7327

NEW REPORT ABSTRACTS SECTION

600/4–76–053 PE 1HD621 IN-HOUSE PROJECT

Radioactivity Standards Distribution Program – FY 1977 BY L. H. Ziegler, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

A program for the distribution of calibrated radioactive samples, as one function of EPA's quality assurance program for environmental radiation measurements, is described. Included is a discussion of the objectives of the distribution program and a description of the preparation, availability, and distribution of calibrated radioactive samples. Instructions and application forms are included for laboratories desiring to participate in the program. This document is not a research report. It is designed for use by personnel of laboratories participating or desiring to participate in the Radioactivity Standards Distribution Program which is a part of the U.S. Environmental Protection Agency's quality assurance program. EPA CONTACT: Douglas, G. 8–595–2969

600/4–76–054 PE EHE625 IN-HOUSE PROJECT

Interlaboratory Intercomparison of Polonium-210 Measurements BY L. H. Ziegler, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

In 1975, the U.S. Environmental Protection Agency distributed calibrated solutions of polonium-210 to laboratories interested in participating in an intercomparison study of polonium-210 analysis. Participants were asked to perform a quantitative radioactivity analysis of the solution. The results reported by all the participating laboratories are given here. Fifty-four percent of the reported activity values were within ± 10 percent of the activity value certified by the National Bureau of Standards. EPA CONTACT: Ziegler, L. H. 8–595–2969

600/4–76–055 PE 1AA603 IN-HOUSE PROJECT

Urban Air Pollution Modeling Without Computers BY M. M. Benarie, Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC

This report was the basis for a series of three lectures by the author on urban air pollution modeling, and represents a condensed version of selected topics from a recent monograph by him. The emphasis is on simple but efficient models that often can be used without resorting to high-speed computers. It is indicated that there will be many circumstances under which such simple models will be preferable to more complex ones. Some specific topics included in the discussion are the limits set by atmospheric predictability, forecasting pollution concentrations in real time as for pollution episodes, the simple box model for pollution concentrations, the frequency distribution of concentration values including the log-normal distribution and averaging-time analysis, the relationships between wind speed and concentration, and lastly the critical question of model validation and the need to consider several indices of goodness-of-fit if pitfalls are to be avoided. EPA CONTACT: Upham, J. B. 8–629–2891

600/4–76–056 PE 1AA603 CONTRACT NO. 68–02–1747

Measurement of Dry Deposition of Fossil Fuel Plant Pollutants BY J. G. Droppo, D. W. Glover, A. B. Abbey, C. W. Spicer, and J. Cooper, Battelle Pacific Northwest Laboratories Richland, WA

Dry removal of air pollutants from fossil fuel plants is considered from both a modeling and measurement viewpoint. Literature on dry deposition rates is summarized and the processes involved in dry deposition are discussed. The dry deposition of SO_2, O_3, NO_x, and NO, as well as total sulfur and lead particles are considered. A prototype field data acquisition system was developed, assembled, and tested. Deposition velocities were computed for each field test. The sulfur dioxide profiles gave reasonable estimates of the dry deposition values, comparable to those in the literature. They varied from 0.10 to 2.38 cm/sec for test runs. Values for the O_3 deposition velocities were very small. The results for NO varied over a wide range, with the number of profiles measured in the test runs insufficient for reaching a definitive conclusion. EPA CONTACT: Viebrock, H. 8–629–4543

600/4–76–057 PE 1BA608 IN-HOUSE PROJECT

Format for Acquiring Rapid Data Analysis Capabilities of STORET Data: Manipulation of National Eutrophication Survey Water Quality Data Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

As an integral part of the National Eutrophication Survey, a program initiated in 1972 in response to an Administration commitment to investigate the threat of accelerated eutrophication to freshwater lakes and reservoirs, the Water and Land Quality Branch, Monitoring Operations Division, Environmental Monitoring and Support Laboratory-Las Vegas, has collected water quality information from selected lakes throughout the contiguous United States. Water quality data are categorized and stored using a U.S. Environmental Protection Agency central computer-oriented system, STORET (STOrage and RETrieval). The data processing and analytical requirements of the Branch were not met by the program options internal to the STORET system. A need for raw data conversions in STORET to some other accessible form was recognized. With the cooperation of the Data Services Branch, Office of Program Management and Support of the same laboratory a job control language package, "STORET.TO.WYLBUR." was written for conversion of raw data in STORET into a standardized format for statistical evaluation and manipulation of Survey data. This data analysis scheme may be ideal for general use as another program option internal to the STORET system. EPA CONTACT: Douglas, G. 8–595–2969

NEW REPORT ABSTRACTS SECTION

600/4-76-058 **PE 1AA603** **GRANT NO. 803632**

Numerical Optimization Techniques in Air Quality Modeling. Objective Interpolation Formulae for the Spatial Distribution of Pollutant Concentration BY S. A. Gustafson, K. O. Kortanek, and J. R. Sweigart, Carnegie Mellon University Pittsburgh, PA

A technique is proposed for objective interpolation of the air quality distribution over a region in terms of sparse measurement data. Empirical information provided by the latter is effectively combined with knowledge of atmospheric dispersion functions of the type commonly used in source-oriented air quality models, to provide improved estimates of the concentration distribution over an extended region. However, the technique is not primarily source-oriented since, in contrast to the real source distribution of a source-oriented model, it utilizes fictitious or pseudo-sources that are estimated in terms of the measured air quality data. This involves the use of interpolation functions that are computed using numerical optimization techniques based on the method of least squares. Due to the large number of different "weather" states that affect the atmospheric dispersion of pollution, considerable computation is required, although the bulk of this can be done in advance, so that the final interpolation from the measured values only requires very simple calculation. Thus the proposed method has the potential for application on a real-time basis. In addition to the mathematical formulation of the problem, this preliminary study includes some numerical experiments, using a current multiple-source EPA air quality model, to illustrate the technique. EPA CONTACT: Calder, K. L. 8-629-4545

600/5-76-010 **PE 1HA094** **CONTRACT NO. 68-01-2952**

Computer Simulation Model for Analyzing Mobile Source Air Pollution Control Strategies MATHTECH, Inc. Princeton, NJ

This report describes MATHAIR, a computer model that simulates the impacts of strategies for controlling mobile source air pollutants. Vehicle miles traveled (VMT) for different modes of ground transportation are predicted by a transportation module. Given VMT predictions, an inventory of stationary sources of mobile source pollutants and certain other inputs for the urban area, pollutant emissions are calculated using EPA-developed relations. A linear rollback air quality module then predicts ambient pollutant concentrations. Finally strategy costs and benefits due to damage reduction are calculated. A set of experiments were performed for four selected urban regions using MATHAIR. MATHAIR costs all strategy costs (including the imputed social cost of trips foregone or induced by a strategy) and all benefits in dollar terms so that strategies can be compared in terms of their total impact. A baseline, zero control strategy and four strategies of increasing stringency are defined and simulated over a ten-year horizon. One general conclusion suggested by the results of the test is that it is economically inefficient to impose the same program of controls in different urban regions. Another conclusion is that the control strategies are very sensitive to certain input data. EPA CONTACT: Jaksch, J. A. 8-420-4714

600/5-76-011 **PE 1HA094** **CONTRACT NO. 68-01-2968**

Physical and Economic Damage Functions for Air Pollutants by Receptors BY B. C. Liu, and E. S. Yu, Midwest Research Institute Kansas City, MO

This study is primarily concerned with evaluating regional economic damages to human health, material, and vegetation and of property soiling resulting from air pollution. This study represents a step forward in methodological development of air pollution damage estimation. It attempts to construct essential frameworks of the physical and economic damage functions which can be used for calculating comparable regional damage estimates for the several important receptors—human health, material, and household soiling—however, tentative the damage estimates may appear to be. More importantly, aggregate economic damage functions instrumental for transforming the multifarious aspects of the pollution problem into a single, homogeneous monetary unit are tentatively derived and illustrated. It is hoped that these results will be of some use to guide policymakers as they make decisions on the implementation of programs to achieve "optimal" pollution levels for this country. Given the experimental nature of the methodological and statistical procedures and the degree of uncertainty associated with the study results, a great deal of caution should be exercised in using the products of this research. EPA CONTACT: Jaksch, J. A. 8-420-4714

600/7-76-015 **PE EHE623** **CONTRACT NO. 68-01-3188**

Who's Who II in the Interagency Energy/Environment Research and Development Program Mitre Corporation McLean, VA

This pamphlet includes the names, addresses and telephone numbers of the principal people who run the one hundred million dollar Energy Environment Interagency Program. This report supersedes report EPA-600/7-76-003. EPA CONTACT: Laska, R. M. 8-755-4857

NEW REPORT ABSTRACTS SECTION

600/7-76-016 PE EHE624 CONTRACT NO. 68-02-2114

Conference on Particulate Collection Problems in Converting to Low Sulfur Coals BY G. B. Nichols, Southern Research Institute Birmingham, AL

These proceedings present papers that discuss problems encountered in burning low-sulfur coal in electrical utility power plant boilers. Operating experience with electrostatic precipitators (ESPs), fabric filter baghouses, and wet scrubbers for control of fly ash stack emissions and techniques for improving performance are described. Increasing the collection efficiency of ESPs for high-resistivity fly ash by adding conditioning agents (e.g., sulfur trioxide, sulfuric acid, ammonium sulfate, sulfamic acid, and ammonia to the flue gas is discussed, as are possible mechanisms for their action. Experiments are described on the reentrainment of fly ash as the result of rapping ESP collection electrodes. A mathematical model is described that calculates the collection efficiency of an ESP as a function of particle size and operating conditions. A mathematical model is also presented for fabric filter action; it incorporates a model of collection efficiency and a non-linear model of fabric drag. Fractional collection efficiency data for submicron fly ash particles are given for a baghouse. Performance data are also presented for wet scrubbers collecting fly ash and in one experiment include the chemical composition (e.g., content of trace elements) of the uncollected fly ash. A multiple-stream process is described for cleaning coal to produce fractions of low and medium sulfur contents by specific gravity differences. EPA CONTACT: Drehmel, D. C. 8-629-8411

600/7-76-018 PE EHE624 CONTRACT NO. 68-02-1010

Control of Waste and Water Pollution from Power Plant Flue Gas Cleaning Systems: First Annual R&D Report BY P. P. Leo, and J. Rossoff, Aerospace Corporation Los Angeles, CA

The report summarizes and assesses the state of research and development in the fields of non-regenerable flue gas cleaning (FGC) waste treatment, utilization, and disposal, as well as water reuse technology, for coal-fired utility power plants. Significant results cover: (1) chemical and physical characterization of wastes from eastern and western U.S. plants using lime, limestone, or double-alkali scrubbing systems; (2) chemical and physical properties and leaching characteristics of treated and untreated wastes; (3) field evaluations of treated and untreated waste disposal; (4) disposal alternatives; (5) cost estimates for ponding and for fixation disposal methods; (6) disposal standards; (7) gypsum production and marketing; (8) potential use of wastes in fertilizer production and portland cement manufacture; (9) beneficiation studies; and (10) total power plant water reuse. Reports are to be issued annually to evaluate the progress of FGC waste disposal and utilization technology. Results, not available but to be included in subsequent reports, will cover: coal-pile drainage, ash characterization and disposal, soil attenuation effects, and conceptualized design cost analyses for various methods of FGC waste disposal. EPA CONTACT: Jones, J. W. 8-629-2915

600/7-76-019 PE EHE623 IAG NO. IAG-D5-E681

Development Program on Pressurized Fluidized-Bed Combustion BY G. Vogel, I. Johnson, P. Cunningham, B. Hubble, S. Lee, J. Lenc, J. Montagna, F. Nunes, and S. Siegel, Argonne National Laboratory Argonne, IL

The document reports progress of an evaluation of the feasibility of using fluidized-bed (FB) combustors in power and steam plants. The concept involves burning fuels such as coal in a FB of either a limestone or a synthetically prepared Ca-containing stone. The Ca reacts with the S to form $CaSO_4$, which remains in the bed, thus decreasing the SO_2 level in the flue gas. NO_x levels in the flue gas are low. In a separate step, the $CaSO_4$ is regenerated to CaO by reductive decomposition at about 1100 C for reuse in the combustor. Progress is reported on: the effect of regeneration operating variables on extent of regeneration and SO_2 concentration in the off-gas using coal as the source of reducing agent and of heat: the alternate combustion and regeneration behavior of stone; the rate and extent of sulfation of agents impregnated on A1203; the effect of variables on sorption and release of S for CaO-impregnated stone; attrition resistance of stone; the kinetic and structural changes occurring during half-calcination of dolomite, the CaS-$CaSO_4$ regeneration reaction: and the volatility of trace elements when heating coal ash. Procurement and disposal of regenerated stone, minimum fluidization studies, modeling of a gas-solid combustion reaction and of the regeneration process, and combustion studies using different sizes of coal and additive and also using lignite are reported. EPA CONTACT: Steen, W. B. 8-629-2825

600/7-76-022 PE EHE624 CONTRACT NO. 68-02-1821

Survey of Emissions Control and Combustion Equipment Data in Industrial Process Heating BY P. A. Ketels, J. D. Nesbitt, and R. D. Oberle, IIT Research Institute Chicago, IL

The report gives results of investigations of the interaction between present and potential energy conservation measures and emission programs in a number of select industries. Where energy conservation goals conflicted with emission control goals, the problems were assessed. Based on these assessments, research and development programs were recommended to solve each industry's problems. The study was limited both to processes in which heat was obtained through the direct combustion of fossil fuels, and to emissions that are affected by combustion itself. It was concluded that information is available on emission problems and control technology associated with particulate emission and stack plume opacity, as well as stack gas acidity, carbon monoxide, and unburned hydrocarbons. However, not much is apparently known about the level of NO_x emissions from industrial heating processes. There are several areas of concern, all related to the apparent conflict between energy conservation and emission control goals: (1) the ability to meet voluntary energy conservation goals is substantially decreased by the energy consumption of emission control devices required by more stringent future emission standards; (2) application of energy conservation measures will lead to increased air pollutant emissions, particularly for NO_x; and (3) the trend away from clean-burning gas. EPA CONTACT: Wasser, J. H. 8-629-2476

NEW REPORT ABSTRACTS SECTION

600/7–76–024 **PE EHE623** **IN-HOUSE PROJECT**

EPA Program Conference Report – Fuel Cleaning Program: Coal BY Z. S. Altschuler, R. E. Hucko, G. A. Isaacs, P. S. Jacobson, J. D. Kilgroe, M. D. Levine, J. F. McConnell, R. A. Meyers, and E. P. Stambaugh, Office of Energy, Minerals, and Industry, EPA Washington, DC

This publication presents the U.S. Environmental Protection Agency's Office of Energy, Minerals, & Industry's interagency coal cleaning research, development and demonstration program. This report consists of the papers presented in the two sessions, Coal Preparation of Pollution Control, of the Fourth National Conference on Energy and the Environment (October 5–6, 1976, Cincinnati, Ohio). The first session (section 1 of the publication) is concerned with the physical, chemical and geochemical aspects of coal including resource distribution and availability. The second session (section 11 of the publication) centers on the cleaning technology, both physical and chemical, that is advancing towards commercialization in cooperation with or under sponsorship from the Government. EPA CONTACT: McCarthy Jr., W. N. 8–755–2737

600/7–76–025a **PE EHE626** **CONTRACT NO. 68–01–0612**

Fiscal Year 1975/Health and Environmental Effects Abstracts BY K. Dixon, and H. Holte, VITRO Laboratories Silver Spring, MD

This report includes SSIE (Smithsonian Science Information) Abstracts pertaining to the FY 1975 Interagency Energy/Environment Research, Development and Demonstration Program being coordinated and managed by EPA's Office of Energy, Minerals, and Industry. The Abstracts are organized by major health and ecological research categories. This volume includes research being accomplished by EPA and its laboratories as well as a number of other participating agencies of the Federal Government. EPA CONTACT: Rowe, N. 8–426–2507

600/7–76–025b **PE EHE626** **CONTRACT NO. 68–01–0612**

Fiscal Year 1975/Control Technology Abstracts: Research Program Abstracts BY K. Dixon, and H. Holte, VITRO Laboratories Silver Spring, MD

This report includes SSIE (Smithsonian Science Information) Abstracts pertaining to the FY 1975 Interagency Energy/Environment Research, Development and Demonstration Program being coordinated and managed by EPA's Office of Energy, Minerals, and Industry. The Abstracts are organized by major energy source control technology. This volume includes research being accomplished by EPA and its laboratories as well as a number of the participating agencies of the Federal Government. EPA CONTACT: Rowe, N. 8–426–2507

600/7–76–026 **PE EHE624** **GRANT NO. 803653–01**

Parametric Studies of Catalysts for NO_x Control from Stationary Power Plants BY K. Nobe, G. L. Bauerle, and S. C. Wu, California, University of Los Angeles, CA

The report gives results of a study of vanadia-alumina and iron oxidechromium oxide-alumina catalysts for the reduction of NO with NH_3 in simulated flue gas. Optimum catalyst compositions were 15% V_2O_5 on Al_2O_3 and 10% Fe-Cr oxides on Al_2O_3 with an Fe/Cr ratio of 1/9, respectively. Both catalysts were selective for the reduction of NO to N_2 in the presence of O_2. Both were shown to be sulfur-resistant during total periods of operation of 648 hours for V_2O_5 and 1052 hours for Fe-Cr in the presence of SO_x. Typical conversion levels for V_2O_5 and Fe-Cr catalysts operating at 400°C in simulated flue gas containing 1000 ppm NO, 1000 ppm NH_3, in the presence of SO_x, were about 90 and 80%, respectively, at 20,000 per hour space velocity. Rate expressions for both catalysts have been developed for design use. A tabulation of recent publications in the field of NO_x catalysis (particularly selective reduction with NH_3) is presented. EPA CONTACT: Stern, R. D. 8–629–2915

600/7–76–027 **PE EHE624** **IN-HOUSE PROJECT**

Effect of a Flyash Conditioning Agent on Power Plant Emissions BY L. E. Sparks, Industrial Environmental Research Laboratory, EPA Research Triangle Park, NC

The report gives results of a study undertaken as a preliminary program to provide data on the environmental effects of a chemical flyash conditioning agent (Apollo Chemicals conditioner LPA 402A). Both the emissions due to the chemical and its effect on electrostatic precipitator (ESP) performance were investigated. The tests were conducted over a 10-day period at Pennsylvania Power and Light Company's Montour Plant with the plant operating on high sulfur coal (without conditioner) and on low sulfur coal (with and without conditioner). Sulfur oxides (SO_x), ammonia, organics, particulates, flyash resistivity, and ESP power supply values were measured during each test period. During conditioner injection, the low sulfur coal flyash resistivity was reduced about 60%, although the ESPs responded slowly to this change and its effect was not clearly evident during the test period. The results of the SO_x, ammonia, and particulate measurements were inconclusive due both to insufficient precision for the number of field tests and to the effect of boiler transients. It is unlikely that the ESP will meet particulate standards when low sulfur coal is burned even if the conditioner is used under test conditions. The test provided useful background information for planning. More thorough testing at Montour seems warranted. EPA CONTACT: Sparks, L. E. 8–629–2557

NEW REPORT ABSTRACTS SECTION

600/7-76-028 PE EHE624 CONTRACT NO. 68-02-1320

PCB Emissions from Stationary Sources: A Theoretical Study BY H. Knieriem Jr., Monsanto Research Corporation Dayton, OH

The report gives results of a theoretical assessment of polychlorinated biphenyl (PCB) formation and destruction in conventional fossil fuel fired sources. Results suggest a small but finite possibility that PCB isomers may be found in their emissions. The study was the result of concern caused by tentative identification of PCB isomers in ash and flyash from a utility steam generating boiler. The theoretical assessment concluded that: (1) PCB emissions are more likely from higher-chlorine content coal or residual oil combustion than from refined oil or natural gas; (2) PCB isomers with four or more chlorine atoms per molecule are more of an environmental hazard than those with three or less; (3) the probability of forming PCB isomers with four or more atoms of chlorine per molecule during combustion is restricted by the short residence times and low concentrations of chlorine available in many fossil fuels; (4) the amount of PCB emissions; if any, may be related to polynuclear aromatic hydrocarbon emissions; (5) based on the above, inefficient combustion control is more likely to produce PCB emissions than optimum conditions; and (6) the highest priority for field sampling and analysis of PCB from combustion sources should be for small- and medium-sized, hand- and underfeed-stoked coal furnaces. EPA CONTACT: Hall, R. E. 8-629-2477

600/7-76-029 PE EHE624 CONTRACT NO. 68-02-1848

Emissions from Residential and Small Commercial Stoker-Coal-Fired Boilers Under Smokeless Operation BY R. D. Giammar, R. B. Engdahl, and R. E. Barrett, Battelle Columbus Laboratories Columbus, OH

The report gives results of a technical assessment of the advisability of increased use of stoker coal for residential and small commercial space heaters. The assessment was based on: (1) an experimental laboratory study (major emphasis) to evaluate emissions from a 20-hp (200 kw) boiler firing anthracite, Western subbituminous, processed lignite char (smokeless coal), and high and low volatile bituminous coals (pollutants of major interest were smoke, particulate, and POM); (2) a survey to identify manufacturers and designs of currently marketed stokers; and (3) a survey to identify processes for the manufacture of smokeless coals and to evaluate the suitability of these fuels for stoker firing. The experimental investigation indicated that smokeless operation of a small stoker could be achieved for the coals evaluated (coals generating the highest smoke levels generated the highest particulate and POM levels). Coals with the highest volatile matter and the highest free swelling index had the highest levels of these emissions. It also indicated that a potential exists to reduce emissions both by minor modifications in the stoker design and operation, and by use of processed or treated coals. Even these emission levels would be considerably higher than those from equivalent oil- and gas-fired systems. EPA CONTACT: Wasser, J. H. 8-629-8411

600/7-76-031 PE EHE624 CONTRACT NO. 68-02-0292

Catalytic Reduction of Nitrogen Oxides with Ammonia: Utility Pilot Plant Operation BY J. M. Kline, P. H. Owen, and Y. C. Lee, Environics, Inc. Newport Beach, CA

The report describes work to demonstrate, on a utility pilot plant scale, the performance, reliability, and practicability of reducing nitrogen oxides (NO_x) emissions from steam boilers by reduction of NO_x with ammonia over a platinum catalyst. A utility pilot plant treating slipstream from an operating electric utility boiler, equivalent to approximately 1.5 MW output, was designed, installed, and tested on gas and oil fuel. Laboratory pilot plant testing supplemented the utility pilot plant testing. Results of gas-firing the utility pilot plant, together with laboratory pilot plant test results, indicated that the catalytic reduction system has consistently provided 85-90% NO_x removal for over 4000 hours, with no significant performance loss at a 50,000 per hour space velocity. Results of oil-firing the utility pilot plant, together with laboratory pilot plant tests results, indicated that this system could provide at least 65% NO_x removal when the flue gas temperature is above 575°F. Preliminary cost estimates indicate a capital expenditure of less than $11 per kW plant capacity, with an operating expenditure of less than 0.02¢ per kWhr for a full-scale system, based on 1974 dollars and a gas-fired 480 MW plant. EPA CONTACT: Stern, R. D. 8-629-2915

600/8-76-002 PE EHE624 CONTRACT NO. 68-02-2131

HP-65 Programmable Pocket Calculator Applied to Air Pollution Measurement Studies: Stationary Sources BY J. W. Ragland, K. M. Cushing, J. D. McCain, and W. B. Smith, Southern Research Institute Birmingham, AL

The handbook is intended for persons concerned with air pollution measurement studies of stationary industrial sources. It gives detailed descriptions of 22 different programs written specifically for the Hewlett Packard Model HP-65 card-programmable pocket calculator. For each program there is: a general description, formulas used in the problem solution, numerical examples, user instructions, and program listings. Areas covered include: Methods 1 through 8 of the EPA Test Codes (Federal Register, 12/23/71), calibration of a flame photometric detector by the permeation tube technique, determination of channel concentrations for a droplet measuring device, resistivity and electric field strength measurements, determination of stack velocity, nozzle diameter, and isokinetic delta H for a high volume stack sampler, and several programs for cascade impactors. Cascade impactor programs include: determination of impactor stage cut points, calculation of the square root of the Stokes number for round-jet and for rectangular-slot geometries, nozzle selection and determination of delta H for isokinetic sampling, determining of sampling time required to collect 50 mg total sample, determination of impactor flow rate, sample volume, and mass loading, and calculation of cumulative concentration curves and their differentials. EPA CONTACT: Harris, B. 8-629-2557

NEW REPORT ABSTRACTS SECTION

600/9-76-013b PE 1RW103 IN-HOUSE PROJECT

ORD Publications Summary, June 1976 Technical Information Staff, ORD, EPA Cincinnati, OH

This summary is a current listing of the Office of Research & Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. EPA CONTACT: Tate, A. H. 8-684-7281

600/9-76-013c PE 1RW103 IN-HOUSE PROJECT

ORD Publications Summary, September 1976 Technical Information Staff, ORD, EPA Cincinnati, OH

This summary is a current listing of the Office of Research and Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. EPA CONTACT: Tate, A. H. 8-684-7281

600/9-76-023 PE 1RW103 IN-HOUSE PROJECT

Fourth U.S.—Japan Conference on Sewage Treatment Technology Municipal Environmental Research Laboratory, EPA Cincinnati, OH

As part of joint interests in environmental matters between the United States and Japan a Conference on Sewage Treatment Technology is held at intervals of about 18 months. This publication contains papers from the Japanese group and from the American side that were presented at the Fourth Conference. Subject matter covered includes sludge treatment and disposal, automation and instrumentation, advanced waste treatment, planning and management of wastewaters, storm and combined overflows, and industrial waste treatment. The publication is unique in that it presents, in English, comprehensive information on wastewater treatment and research being conducted in Japan. EPA CONTACT: Middleton, F. M. 8-684-7966

600/9-76-024 PE 1RW103 IN-HOUSE PROJECT

Second Joint U.S./USSR Symposium on the Comprehensive Analysis of the Environment; Honolulu, Hawaii, October 21-26, 1975 Office of Research and Development, EPA Washington, DC

This proceeding includes papers presented at the Second U.S./USSR Symposium on Comprehensive Analysis of the Environment. All the papers, except for one, were given in English or Russian at Honolulu, Hawaii, USA between October 23, 1975 and October 25, 1976. The paper by Gerasimov, Izrael, and Sokolov was given in New York on October 20, 1975 at a joint meeting with Biosphere Reserves Project. The publication of these proceedings is in accordance with the Memorandum of the Fourth Meeting of the U.S./USSR Joint Committee on Cooperation in the Field of Environmental Protection, signed in Washington on October 31, 1975, which called for independent publication in both the United States and the Soviet Union. Papers presented were grouped into the following categories: Maximum Permissible Load; Internal Substance Cycling in Natural Ecosystems; Human Risk Assessment; and Environmental Stress and Behavior. EPA CONTACT: Lawrence, C. 8-245-3009

600/9-76-025 PE 1BC611 IN-HOUSE PROJECT

Publications by Personnel of the Municipal Environmental Research Laboratory 1970-1976 BY R. T. Bridges, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

This summary is a current listing of publications authored by personnel of the Municipal Environmental Research Laboratory and its predecessor organizations during the period from 1970 thru 1976. The publication is arranged in three sections, one for each of the MERL's divisions. Within each section, publications are arranged alphabetically by primary author, and alphabetically by title wherever the author has more than one publication. EPA CONTACT: Bridges, R. T. 8-684-7955

600/9-76-027 PE 1BD612 IN-HOUSE PROJECT

Publications and Reports – Environmental Monitoring & Support Laboratory 1955-1969 Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

The compilation consists of publications and reports authored or co-authored by Environmental Monitoring and Support Laboratory personnel since 1955. EPA CONTACT: Anderson, J. B. 8-684-7301

NEW REPORT ABSTRACTS SECTION

600/9-76-028 **PE 1BD612** **IN-HOUSE PROJECT**

Publications and Reports – Environmental Monitoring & Support Laboratory 1970–1976 Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

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Translation of Reports on Special Problems of Water Technology; Volume 9: Adsorption – Conference held in Karlsruhe, Federal Republic of Germany, 1975 BY H. Sontheimer, Karlsruhe, University of Karlsruhe, Federal Republic of Germany, FC

In the summer of 1975 a Conference was held at the Engler-Bunte-Institute in Karlsruhe, Federal Republic of Germany on the subject of adsorption and reactivation as a water treatment unit process. Twenty-four papers were presented by the leading scientists and engineers in Western Europe. The Proceedings of this Conference have been translated and are presented herein. The information on the adsorption process formerly available only in German is now available in English. Copies of the previous 8 volumes are available in German from the Engler-Bunte-Institute. EPA CONTACT: Symons, J. M. 8–684–7228

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11022DMU07/70	1102	**Combined Sewer Regulator Overflow Facilities** American Public Works Association Chicago, IL
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11024DOC07/71	1102	**Storm Water Management Model, Vol. I, Final Report** Metcalf and Eddy Engineers Palo Alto, CA **ORDER FROM: NTIS-PB** 203 289 $21.25
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68-02-0626	650/4-74-033
68-02-0626	650/4-74-039
68-02-0626	650/4-75-003
68-02-0626	650/4-75-009
68-02-0628	650/2-74-023
68-02-0629	600/2-76-101
68-02-0629	650/2-74-009a
68-02-0629	650/2-74-009b
68-02-0629	650/2-74-009c
68-02-0629	650/2-74-009d
68-02-0629	650/2-74-009e
68-02-0629	650/2-74-009f
68-02-0629	650/2-74-009g
68-02-0629	650/2-74-009h
68-02-0629	650/2-74-009i
68-02-0629	650/2-74-009j
68-02-0629	650/2-74-009k
68-02-0629	650/2-74-009l
68-02-0629	650/2-74-009m
68-02-0630	650/2-74-076
68-02-0634	650/2-74-002a
68-02-0634	650/2-74-002b
68-02-0635	600/2-76-039
68-02-0636	600/2-75-012
68-02-0636	650/2-75-020
68-02-0637	650/2-74-119a
68-02-0637	650/2-74-119b
68-02-0647	650/2-74-025
68-02-0647	650/2-74-025a
68-02-0648	650/2-75-001a
68-02-0648	650/2-75-001b
68-02-0650	600/2-75-037
68-02-0650	650/2-74-062
68-02-0650	650/2-74-062a
68-02-0652	650/4-74-020
68-02-0653	650/2-74-069
68-02-0654	650/4-74-017
68-02-0656	650/2-74-020
68-02-0657	650/2-74-006

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0658	650/2-73-009
68-02-0660	650/2-75-008
68-02-0662	650/2-74-008a
68-02-0665	650/4-74-049
68-02-0680	650/4-74-010
68-02-0698	650/2-75-068
68-02-0699	650/4-75-005
68-02-0713	650/1-74-013
68-02-0716	650/2-74-055
68-02-0742	650/2-74-089
68-02-0744	650/4-75-014
68-02-0745	650/4-74-042
68-02-0757	650/2-74-046a
68-02-0757	650/2-74-046b
68-02-0760	650/4-74-051
68-02-0766	600/2-76-277
68-02-0771	650/3-75-004
68-02-0778	650/2-74-056
68-02-0782	650/2-74-065
68-02-0788	650/4-74-052
68-02-0792	650/3-75-010
68-02-0798	650/4-74-036
68-02-0799	600/3-76-030a
68-02-0799	600/3-76-030b
68-02-0800	650/4-74-044
68-02-0994	650/4-74-038
68-02-1006	600/4-76-013
68-02-1010	600/2-76-070
68-02-1010	600/7-76-018
68-02-1010	650/2-74-037a
68-02-1011	650/2-74-019
68-02-1013	650/2-75-031
68-02-1015	650/4-74-007
68-02-1068	650/2-74-106
68-02-1074	600/2-76-086a
68-02-1074	600/2-76-086b
68-02-1074	650/2-74-078a
68-02-1075	650/2-75-059
68-02-1079	650/2-74-108
68-02-1081	600/3-76-011a
68-02-1081	600/3-76-011b
68-02-1081	600/3-76-011c
68-02-1081	600/3-76-016
68-02-1081	600/4-76-032
68-02-1081	600/4-76-040
68-02-1081	650/3-75-009
68-02-1082	600/2-75-018

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1087	600/2-76-009
68-02-1092	650/2-75-061a
68-02-1093	650/2-74-058
68-02-1093	650/2-74-058a
68-02-1098	650/4-74-023
68-02-1098	650/4-75-001
68-02-1099	600/2-75-078
68-02-1099	600/2-76-153
68-02-1145	650/1-74-009
68-02-1201	650/2-75-050
68-02-1205	600/1-76-010a
68-02-1206	650/4-75-008
68-02-1207	650/4-74-001
68-02-1208	650/2-75-041
68-02-1209	650/2-75-039
68-02-1210	600/1-75-004
68-02-1210	650/2-75-049
68-02-1217	650/3-75-002
68-02-1223	600/2-75-067
68-02-1224	650/2-75-069
68-02-1225	650/2-74-059
68-02-1226	600/1-76-014
68-02-1226	600/1-76-020
68-02-1226	600/1-76-027a
68-02-1226	600/1-76-027b
68-02-1226	600/1-76-036
68-02-1227	600/2-75-024
68-02-1228	600/2-75-076
68-02-1228	650/2-74-121
68-02-1229	650/2-74-120
68-02-1230	650/2-75-056
68-02-1233	650/4-74-043
68-02-1234	650/4-74-005a
68-02-1234	650/4-74-005b
68-02-1234	650/4-74-005c
68-02-1234	650/4-74-005d
68-02-1234	650/4-74-005h
68-02-1234	650/4-74-005k
68-02-1234	650/4-74-005l
68-02-1234	650/4-74-005m
68-02-1234	650/4-74-005n
68-02-1234	650/4-74-005o
68-02-1235	650/4-74-050
68-02-1236	650/2-75-055
68-02-1237	600/4-76-016a
68-02-1237	600/4-76-016a-d
68-02-1237	600/4-76-016b

CONTRACTS

PROJECT NO.	REPORT NO.
68-02-1237	600/4-76-016c
68-02-1237	600/4-76-016d
68-02-1238	650/4-74-006
68-02-1242	650/4-74-016
68-02-1243	600/1-76-021
68-02-1244	600/2-76-170
68-02-1255	650/2-75-007
68-02-1265	650/1-75-004
68-02-1268	650/2-75-029
68-02-1274	600/1-76-019
68-02-1274	650/1-74-008
68-02-1275	600/2-75-048
68-02-1277	650/1-75-002
68-02-1279	650/2-75-054
68-02-1282	650/2-75-028
68-02-1287	600/1-76-018
68-02-1289	600/1-76-005
68-02-1289	600/1-76-035
68-02-1292	650/2-75-053a
68-02-1292	650/2-75-053b
68-02-1293	600/4-76-021
68-02-1293	600/4-76-022
68-02-1295	600/2-76-157
68-02-1296	600/3-76-107
68-02-1297	600/4-76-007
68-02-1302	600/2-75-051
68-02-1303	600/2-75-015
68-02-1303	600/2-75-017
68-02-1303	600/2-76-144
68-02-1303	650/2-74-079
68-02-1303	650/2-74-114
68-02-1303	650/2-74-124
68-02-1305	600/4-76-009
68-02-1306	650/2-74-085b
68-02-1306	650/2-74-086a
68-02-1306	650/2-74-086b
68-02-1307	600/2-76-258
68-02-1307	600/2-76-259
68-02-1308	600/2-75-056
68-02-1308	600/2-76-044a
68-02-1308	600/2-76-044b
68-02-1308	650/2-74-028
68-02-1308	650/2-74-072
68-02-1308	650/2-74-098
68-02-1308	650/2-74-098a
68-02-1308	650/2-74-116
68-02-1308	650/2-74-127

CONTRACTS

PROJECT NO.	REPORT NO.
68-02-1308	650/2-74-130
68-02-1308	650/2-75-016
68-02-1308	650/2-75-017
68-02-1308	650/2-75-030
68-02-1308	650/2-75-033
68-02-1309	650/2-75-018
68-02-1310	600/4-75-016a
68-02-1310	600/4-75-016b
68-02-1310	650/4-74-035
68-02-1312	600/7-76-011
68-02-1313	600/2-76-142
68-02-1314	650/2-75-042
68-02-1316	600/2-75-054
68-02-1316	600/2-76-035
68-02-1316	600/2-76-046a
68-02-1316	600/2-76-046b
68-02-1316	600/2-76-046c
68-02-1316	600/2-76-055
68-02-1316	600/2-76-069
68-02-1316	600/7-76-017
68-02-1316	650/2-74-036
68-02-1316	650/2-74-043
68-02-1316	650/2-74-083
68-02-1318	600/2-75-046
68-02-1318	600/2-76-037
68-02-1318	600/2-76-052
68-02-1318	600/2-76-097
68-02-1318	600/2-76-121
68-02-1318	600/7-76-010
68-02-1318	650/2-74-091
68-02-1318	650/2-74-123
68-02-1319	600/2-75-042
68-02-1319	600/2-75-068
68-02-1319	600/2-76-049a
68-02-1319	600/2-76-049b
68-02-1319	600/2-76-064
68-02-1319	600/2-76-092
68-02-1319	600/2-76-281
68-02-1319	600/7-76-030
68-02-1319	650/2-74-033
68-02-1319	650/2-75-065
68-02-1320	600/2-75-045
68-02-1320	600/7-76-028
68-02-1320	650/2-74-021
68-02-1320	650/2-74-041
68-02-1320	650/2-74-082
68-02-1320	650/2-74-117

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1320	650/2-75-019a
68-02-1320	650/2-75-046
68-02-1321	600/2-76-013a
68-02-1321	600/2-76-013b
68-02-1321	600/2-76-150
68-02-1321	650/2-74-101
68-02-1321	650/2-74-115
68-02-1321	650/2-74-122
68-02-1321	650/2-75-057a
68-02-1321	650/2-75-057b
68-02-1321	650/2-75-057c
68-02-1321	650/2-75-057d
68-02-1321	650/2-75-057e
68-02-1321	650/2-75-057f
68-02-1321	650/2-75-057g
68-02-1321	650/2-75-057h
68-02-1321	650/2-75-057i
68-02-1321	650/2-75-057j
68-02-1321	650/2-75-057k
68-02-1322	600/2-76-010
68-02-1322	600/2-76-119
68-02-1323	600/2-75-066
68-02-1323	600/2-75-073
68-02-1323	600/2-76-002
68-02-1323	600/2-76-014
68-02-1323	600/2-76-015
68-02-1323	600/2-76-054
68-02-1323	600/2-76-056
68-02-1323	600/2-76-076
68-02-1323	600/2-76-099
68-02-1323	600/2-76-130
68-02-1323	600/2-76-167
68-02-1323	600/2-76-268
68-02-1323	600/2-76-269
68-02-1323	600/2-76-303
68-02-1323	600/7-76-035
68-02-1323	600/7-76-036
68-02-1323	650/2-74-052
68-02-1323	650/2-74-099
68-02-1323	650/2-74-100
68-02-1323	650/2-75-034
68-02-1323	650/2-75-038
68-02-1324	600/2-75-020
68-02-1324	600/2-76-001
68-02-1324	600/2-76-040
68-02-1324	600/2-76-041
68-02-1324	600/2-76-066
68-02-1324	600/2-76-067
68-02-1324	600/2-76-120
68-02-1324	600/2-76-133
68-02-1324	600/2-76-172
68-02-1324	600/2-76-173
68-02-1324	600/2-76-174
68-02-1324	600/2-76-208
68-02-1324	600/2-76-209
68-02-1324	600/2-76-257
68-02-1324	650/2-74-073
68-02-1324	650/2-75-044
68-02-1324	650/2-75-066
68-02-1325	600/2-76-087
68-02-1325	600/2-76-149
68-02-1325	600/2-76-155
68-02-1325	600/2-76-199
68-02-1325	600/2-76-212
68-02-1325	600/7-76-033
68-02-1325	650/2-74-097
68-02-1325	650/2-74-118
68-02-1325	650/2-75-021
68-02-1328	600/2-75-021a
68-02-1328	600/2-76-200
68-02-1328	650/2-74-112
68-02-1329	650/2-75-032a
68-02-1329	650/2-75-032b
68-02-1329	650/2-75-032c
68-02-1329	650/2-75-032d
68-02-1331	600/2-76-079
68-02-1332	600/2-76-161a
68-02-1332	600/2-76-161b
68-02-1332	600/2-76-166
68-02-1336	600/2-76-143a
68-02-1336	600/2-76-143b
68-02-1339	650/2-74-067
68-02-1345	600/2-76-249a
68-02-1345	600/2-76-249b
68-02-1348	650/2-74-090
68-02-1352	650/2-74-030
68-02-1353	600/2-76-065
68-02-1353	650/2-74-088
68-02-1359	600/2-76-248
68-02-1360	600/2-76-098a
68-02-1360	600/2-76-098b
68-02-1363	650/4-74-019a
68-02-1363	650/4-74-046
68-02-1363	650/4-75-011

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1363	650/4-75-013
68-02-1364	600/2-75-014
68-02-1365	650/2-75-060
68-02-1367	650/2-73-005a
68-02-1367	650/2-73-005b
68-02-1393	600/2-76-283
68-02-1398	600/2-76-073
68-02-1398	600/2-76-080
68-02-1398	600/2-76-081
68-02-1398	600/2-76-083
68-02-1398	600/2-76-159
68-02-1401	600/2-76-047
68-02-1404	600/2-76-124
68-02-1404	600/2-76-176
68-02-1405	600/2-76-036a
68-02-1405	600/2-76-036b
68-02-1405	600/2-76-036c
68-02-1405	600/2-76-036d
68-02-1405	600/2-76-036e
68-02-1405	600/2-76-036f
68-02-1405	600/2-76-036g
68-02-1405	600/2-76-036h
68-02-1405	600/2-76-036i
68-02-1405	600/2-76-036j
68-02-1405	600/2-76-036k
68-02-1406	600/2-76-048a
68-02-1406	600/2-76-048b
68-02-1406	650/2-75-026a
68-02-1406	650/2-75-026b
68-02-1409	600/2-76-072
68-02-1411	600/2-76-122
68-02-1411	600/2-76-201
68-02-1412	600/2-76-093b
68-02-1412	600/2-76-160a
68-02-1412	600/2-76-203
68-02-1436	650/2-75-035
68-02-1438	600/2-75-013a
68-02-1438	600/2-76-077a
68-02-1439	650/2-75-064
68-02-1453	600/2-76-125
68-02-1480	600/2-76-164
68-02-1480	650/2-74-129
68-02-1480	650/2-74-129a
68-02-1482	600/9-76-020
68-02-1485	600/2-76-090
68-02-1487	600/2-76-202
68-02-1487	650/2-75-024a
68-02-1496	600/2-76-154a
68-02-1496	600/2-76-154b
68-02-1496	650/2-75-058a
68-02-1660	600/2-76-059
68-02-1701	600/1-76-010b
68-02-1703	600/1-76-012
68-02-1704	600/4-76-029a
68-02-1704	600/4-76-029a-c
68-02-1704	600/4-76-029b
68-02-1704	600/4-76-029c
68-02-1713	600/1-76-028
68-02-1714	600/3-76-018a
68-02-1714	600/3-76-018b
68-02-1715	600/1-76-031
68-02-1717	600/1-76-030
68-02-1718	600/3-76-080
68-02-1722	600/2-75-053
68-02-1723	600/1-76-001
68-02-1727	60C/1-76-017
68-02-1728	600/4-76-008
68-02-1728	600/4-76-015
68-02-1729	600/4-76-031
68-02-1731	600/2-76-034
68-02-1735	600/3-76-091
68-02-1737	600/1-76-034
68-02-1740	650/4-75-024a
68-02-1740	650/4-75-024b
68-02-1740	650/4-75-024c
68-02-1740	650/4-75-024d
68-02-1740	650/4-75-024e
68-02-1740	650/4-75-024f
68-02-1740	650/4-75-024g
68-02-1740	650/4-75-024h
68-02-1743	600/2-76-171
68-02-1747	600/4-76-056
68-02-1748	600/2-76-096
68-02-1749	600/2-76-062
68-02-1752	650/2-75-062
68-02-1753	600/3-75-003a
68-02-1753	600/3-75-003b
68-02-1755	600/2-76-169
68-02-1767	600/4-76-037
68-02-1773	600/2-75-077
68-02-1785	600/3-76-090
68-02-1792	600/2-75-052
68-02-1799	600/1-76-037
68-02-1802	600/2-75-074

CONTRACTS

PROJECT NO.	REPORT NO.
68-02-1808	650/2-75-040
68-02-1814	600/2-75-050
68-02-1814	600/7-76-008
68-02-1815	600/2-76-284
68-02-1816	600/2-76-042
68-02-1819	600/2-76-038
68-02-1821	600/7-76-022
68-02-1831	600/2-76-057
68-02-1833	600/4-75-005a
68-02-1833	600/4-75-005b
68-02-1834	600/2-76-138
68-02-1835	600/2-76-053
68-02-1843	600/2-76-102
68-02-1848	600/7-76-029
68-02-1851	650/2-75-005a
68-02-1851	650/2-75-005b
68-02-1859	600/2-76-093a
68-02-1859	600/2-76-137
68-02-1866	600/2-76-278
68-02-1869	600/2-76-118
68-02-1869	600/2-76-282
68-02-1873	600/2-76-247a
68-02-1874	600/2-76-032a
68-02-1874	600/2-76-032b
68-02-1874	600/2-76-032c
68-02-1874	600/2-76-032d
68-02-1874	600/2-76-032e
68-02-1875	600/2-76-140
68-02-1882	600/2-76-012a
68-02-1882	600/2-76-012b
68-02-1883	600/2-76-273a
68-02-1883	600/2-76-273b
68-02-1888	600/2-76-256
68-02-1919	600/3-76-110
68-02-1944	600/1-76-009
68-02-1973	650/2-73-045
68-02-2012	650/2-73-044
68-02-2110	600/2-76-089a
68-02-2110	600/2-76-089b
68-02-2110	600/2-76-089c
68-02-2110	600/2-76-246
68-02-2112	600/2-76-177a
68-02-2112	600/2-76-177b
68-02-2114	600/2-76-141
68-02-2114	600/7-76-016
68-02-2128	600/2-76-009a
68-02-2131	600/8-76-002

CONTRACTS

PROJECT NO.	REPORT NO.
68-02-2219	600/2-76-210
68-02-2220	600/2-76-211
68-02-2241	600/3-76-109
68-02-2266	600/1-76-029
68-02-2323	650/2-75-063
68-02-4191	600/2-76-008
68-03-0006	670/2-73-052
68-03-0032	670/2-73-014
68-03-0032	670/2-73-015
68-03-0032	670/2-73-016
68-03-0046	670/2-73-013
68-03-0047	670/5-74-003
68-03-0049	670/2-73-006
68-03-0050	670/2-73-066
68-03-0060	670/2-73-056
68-03-0089	670/2-73-053A
68-03-0089	670/2-73-053A-P
68-03-0089	670/2-73-053B
68-03-0089	670/2-73-053C
68-03-0089	670/2-73-053D
68-03-0089	670/2-73-053E
68-03-0089	670/2-73-053F
68-03-0089	670/2-73-053G
68-03-0089	670/2-73-053H
68-03-0089	670/2-73-053I
68-03-0089	670/2-73-053J
68-03-0089	670/2-73-053K
68-03-0089	670/2-73-053L
68-03-0089	670/2-73-053M
68-03-0089	670/2-73-053N
68-03-0089	670/2-73-053O
68-03-0089	670/2-73-053P
68-03-0094	600/2-76-229
68-03-0095	670/2-74-019
68-03-0095	670/2-74-020
68-03-0095	670/2-74-021
68-03-0102	670/2-75-045
68-03-0123	670/2-75-024
68-03-0126	670/1-75-001
68-03-0128	670/2-75-023
68-03-0138	670/2-74-078
68-03-0140	670/2-75-049
68-03-0144	600/2-76-198
68-03-0144	600/2-76-276
68-03-0145	670/2-75-014
68-03-0148	670/2-75-038
68-03-0152	600/2-75-035

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CONTRACTS	
68-03-0154	670/2-74-033
68-03-0154	670/2-74-045
68-03-0154	670/2-74-086
68-03-0156	670/2-73-086
68-03-0179	670/2-74-040
68-03-0183	670/2-74-037
68-03-0183	670/2-74-038
68-03-0183	670/2-74-065
68-03-0183	670/2-74-066
68-03-0183	670/2-74-068
68-03-0193	670/5-75-001
68-03-0203	670/2-75-012
68-03-0220	670/2-74-056
68-03-0221	670/2-75-007
68-03-0228	670/2-75-004
68-03-0233	660/2-73-026
68-03-0234	600/2-76-300
68-03-0244	670/2-74-095a
68-03-0244	670/2-74-095b
68-03-0250	600/2-76-146
68-03-0251	600/2-76-175a
68-03-0251	600/2-76-175b
68-03-0260	670/2-74-082
68-03-0261	600/3-76-071a
68-03-0261	600/3-76-071b
68-03-0262	670/2-74-087
68-03-0262	670/2-75-067
68-03-0268	670/2-74-003
68-03-0271	600/3-76-048
68-03-0272	600/2-75-062
68-03-0272	600/2-76-271
68-03-0272	670/2-75-011
68-03-0283	670/2-74-039
68-03-0286	600/2-75-041
68-03-0288	660/3-75-024
68-03-0298	660/3-75-018
68-03-0302	600/2-76-116
68-03-0304	600/2-76-245
68-03-0327	670/2-75-066
68-03-0331	600/2-76-263
68-03-0334	600/2-75-038
68-03-0335	600/2-76-145
68-03-0349	600/2-76-180
68-03-0359	600/2-76-242
68-03-0409	600/2-75-065
68-03-0409	600/2-76-006
68-03-0417	600/2-76-181

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CONTRACTS	
68-03-0426	600/2-75-027
68-03-0430	600/2-76-050
68-03-0436	600/2-76-289
68-03-0439	660/3-75-037
68-03-0442	600/2-76-105
68-03-0443	600/4-76-018
68-03-0455	600/2-76-103
68-03-0456	600/2-76-270
68-03-0470	600/2-75-040
68-03-0473	600/4-76-043
68-03-0473	600/4-76-050
68-03-0475	600/2-76-288
68-03-0499	600/2-76-058
68-03-2016	600/7-76-004a
68-03-2016	600/7-76-004b
68-03-2052	600/3-75-011
68-03-2053	600/2-76-078
68-03-2075	600/4-76-049
68-03-2121	600/2-76-11[illegible]
68-03-2134	600/2-76-255
68-03-2136	660/2-75-011
68-03-2139	600/2-76-117
68-03-2171	600/4-76-060
68-03-2176	600/3-76-034
68-03-2186	600/2-76-286
68-03-2198	600/7-76-034a
68-03-2198	600/7-76-034b
68-03-2198	600/7-76-034c
68-03-2198	600/7-76-034d
68-03-2198	600/7-76-034e
68-03-2198	600/7-76-034f
68-03-2198	600/7-76-034g
68-03-2198	600/7-76-034h
68-03-2198	600/7-76-034i
68-03-2198	600/7-76-034j
68-03-2198	600/7-76-034k
68-03-2198	600/7-76-034l
68-03-2198	600/7-76-034m
68-03-2198	600/7-76-034n
68-03-2198	600/7-76-034o
68-03-2333	600/4-76-052
68-03-2395	600/2-76-148
GRANTS	
AP 01186	650/3-74-003
AP-01269-02	650/2-74-005
DA-6-99-2294A	600/3-76-087
EC-00281	670/9-73-035

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EC-0030-03	670/2-73-089A
EC-0030-03	670/2-73-089B
EC-00600	670/5-74-002
EP-00242	670/2-74-027
EP-00248	670/2-73-023
EP-00250	670/2-73-063
EP-00254	670/2-73-085
EP-00257	670/2-73-065
EP-00259	670/2-73-072
EP-00261	670/2-73-048
EP-00262-02	670/2-73-009
EP-00265	670/2-73-083
EP-00266	670/2-73-039
EP-00268	670/2-73-061
EP-00274	670/2-73-090
EP-00276-04	670/2-73-005
EP-00279	670/2-73-011
EP-00283	670/2-73-025
EP-00302	670/2-73-051
EP-00304	670/2-73-087
EP-00316	670/2-73-041
EP-00319	670/2-73-034
EP-00328	670/2-73-095
EP-00329	660/2-73-038
EP-00329	670/2-73-038
EP-00329	670/2-75-053
EP-00362	670/2-73-030
EP-00386	670/2-73-049
EP-00393	670/2-73-021
EP-00458	670/5-73-020
EP-00458	670/5-74-001
EP-00500-01	670/2-74-014
EP-00829-01	660/2-74-081
EP-01030	670/5-74-006
P5-01-1805	600/1-75-002
UI-00509	670/2-73-057
UI-00557	670/2-73-017
WP 01351-01	660/3-74-014
WP-01322-02	670/2-73-027
WPD 184-01-67	660/2-74-030
WPD-112-01-66	670/2-75-054
WPRD 121-01-68	670/2-73-024
WPRD 139-01-68	600/2-75-060
WPRD 16-01-67	670/2-75-037
WPRD 185-01-68	660/2-73-015
WPRD 23-01-68	670/2-73-098
WPRD 242-01	670/2-73-092

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WPRD 247-01	670/2-74-061
WPRD 263-01-68	600/2-76-027
WPRD 263-01-68	600/2-76-028
WPRD 263-01-68	600/2-76-029
WPRD 263-01-68	600/2-76-030
WPRD 263-01-68	600/2-76-031
WPRD 3-01-68	660/2-74-035
WPRD 30-01-0067	670/2-73-096
WPRD 4-01-67	670/2-74-077
WPRD 4-01-67	670/2-75-027
Y005141	600/2-76-218
1-f1-WP-26, 212	600/3-76-039
11010 DYO	670/2-75-060
11010 ELP	670/2-73-024
11010 ENK	670/2-73-103
11010 EZJ	600/2-76-264
11010 EZQ	670/2-73-098
11010 FAC	600/2-75-049
11010 FAC	600/3-76-003
11010 FLQ	670/2-73-050
11010 FYM	670/2-73-033
11010 GAK	600/2-76-134
11010 GWI	600/2-73-004
11020 DXH	600/2-76-272
11020 EZW	600/2-76-228
11020 FAM	670/2-74-079
11020 FAN	670/2-73-071
11020 FAU	600/2-75-071
11020 FAX	670/2-75-020
11022 ELK	670/2-74-022
11022 FLV	670/2-75-035
11023 EKC	670/2-75-019
11023 FAO	600/2-76-222a
11023 FAO	600/2-76-222b
11023 FAR	670/2-75-010
11023 FAS	670/2-73-067
11024 DQU	600/2-76-217a
11024 DQU	600/2-76-217b
11024 EVF	600/2-73-002
11024 FVQ	600/2-76-243
11030 HJP	670/2-74-096
11060 DJB	600/2-76-236
11060 DRO	660/2-73-038
11060 FRQ	600/2-75-030
11060 GVT	670/2-74-062
12010 DNF	660/2-74-050
12010 DOT	670/2-74-059

PROJECT NO.	REPORT NO.
GRANTS	
12010 DRH	660/2-73-033
12010 DSA	670/2-74-042
12010 FNM	660/2-73-032
12010 FXD	670/2-75-018
12010 GUG	600/2-75-028
12020 EGC	600/2-76-123
12020 EMI	600/2-76-223
12020 ERM	670/2-74-044
12020 FOH	600/2-76-195
12020 GUT	600/2-76-260
12040 DEH	660/2-74-069
12040 DRY	660/2-74-008
12040 EJU	660/2-75-004
12040 FED	600/2-76-252
12040 GQD	660/2-73-028
12040 HDU	660/2-74-086
12050 GTR	660/2-75-020
12060 DEQ	600/2-76-254
12060 DFF	660/2-74-027
12060 DQV	660/2-73-015
12060 EGV	660/2-74-031
12060 EIG	660/2-74-088
12060 EKQ	660/2-74-012
12060 ESC	660/2-74-093
12060 ESY	660/2-74-035
12060 FAK	660/2-74-028
12060 FDK	600/2-76-294
12060 FLL	660/2-74-014
12060 FRW	660/2-73-020
12060 FRW	660/2-73-021
12060 FYG	660/2-74-060
12060 HCW	660/2-74-059
12060 HFY	660/2-74-092
12060 HNG	660/2-74-046
12060 HPC	660/2-75-002
12070 HEK	660/2-73-023
12080 GCH	660/2-74-040
12090 HLO	660/2-74-039
12110 GLP	660/2-73-018
12110 HIG	600/2-76-231
12120 FYV	660/2-73-037
12120 GLE	660/2-74-007
12120 HMZ	660/2-75-006
12130 DBF	660/2-73-010
12130 EKK	660/2-74-020
12130 HFX	660/2-73-036
12130 HRA	660/2-74-055

PROJECT NO.	REPORT NO.
GRANTS	
13020 DTV	660/2-74-005
13020 DWH	660/2-74-033
13020 EBL	660/2-74-032
13040 DFN	660/2-74-030
13040 ERR	660/2-74-009
13040 EVM	660/2-74-047
13040 FYK	660/2-74-057
14010 EFJ	670/2-73-092
14010 EFL	670/2-73-054
14010 EFN	670/2-73-093
14010 FWW	600/2-76-114
14010 GCM	600/2-76-111
14010 HIN	600/2-76-106
14010 HQC	670/2-74-009
14020 EHW	660/2-74-019
14020 FVW	660/2-74-037
14040 FVD	660/2-74-018
14040 FZC	670/2-73-080
15010 PBK	670/2-73-088
15020 HKQ	670/2-74-063
15030 FMZ	660/2-73-035
15030 HIX	660/2-74-043
15080 EJQ	670/2-73-099
15080 HET	670/2-73-068
15080 HGX	600/2-76-127
16010 DBU	660/3-74-034
16010 DCK	660/3-73-002
16010 DFI	660/3-73-001
16010 DHN	660/3-73-003
16010 EDJ	660/3-73-006
16010 EJH	660/3-73-015
16010 ELF	660/3-74-017
16010 EQQ	660/2-74-010
16020 DHD	670/2-73-079
16020 EDG	660/2-74-021
16020 EGG	660/3-74-026
16020 GIY	670/4-74-004
16030 ELZ	660/2-73-027
16040 FRL	660/2-73-008
16050 DDK	660/3-73-009
16050 DIL	660/2-74-082
16050 DIL	660/2-74-083
16050 DIL	660/3-73-011
16050 DXM	660/3-73-008
16050 ESP	660/3-74-002
16050 GQQ	660/3-73-025
16070 DEP	660/3-74-004a

PROJECT NO.	REPORT NO.
GRANTS	
16070 DEP	660/3-74-004b
16070 DGO	660/3-75-025
16070 DGY	660/3-73-010
16070 EKZ	660/3-73-005
16070 FBY	660/2-73-029
16080 DPC	600/2-76-005a
16080 DPC	600/2-76-005b
16080 DYJ	660/2-74-016
16080 FBH	660/2-73-022
16080 FWE	600/2-74-003
16080 FYW	660/2-73-025a
16080 FYW	660/2-73-025b
16100 FWQ	660/3-73-018
16100 PAK	660/2-73-017
16110 GEW	600/5-74-013
16130 FDQ	660/2-73-012
16130 GNK	660/2-73-011
16130 GSD	660/2-73-003
16130 HKK	660/2-73-004
17010 EBM	670/2-73-027
17020 EPF	670/2-74-012
17030 DMA	670/2-73-074
17030 DUW	670/2-74-047
17030 EBH	600/2-75-039
17030 ECM	600/2-76-297
17040 DSR	670/2-74-077
17050 DBI	670/2-74-018
17050 DFJ	600/2-75-032
17050 EFY	670/2-74-048
17060 DNU	670/2-73-029
17060 EYZ	670/2-73-082
17070 HDA	670/2-74-004
17080 FSF	670/2-73-064
17080 GCI	600/2-76-022
17080 HHV	670/2-74-080
18050 DET	660/3-74-003
18050 DFQ	660/3-73-016
18050 DIJ	660/3-73-020
18050 DMB	660/3-73-017
18050 DPL	660/3-73-019
18050 ELT	660/3-74-006
18050 FLS	660/3-73-004
18080 DFU	660/3-74-014
18080 FBW	660/3-74-031
800042	650/2-75-002
800055	660/2-73-032
800055	670/2-73-032

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GRANTS	
800055	670/2-74-083
800055	670/2-74-084
800150	650/2-74-034
800171	600/3-76-021
800209	650/3-75-005
800230	600/1-76-015
800250	660/2-74-091
800261	660/2-73-019
800278	660/2-74-052
800278	660/2-74-084
800294	660/2-75-014
800312	660/2-75-017
800316	650/2-74-110
800351	670/2-74-032
800354	600/2-75-029
800355	600/3-76-069
800356	670/2-75-039
800359-02	600/4-76-034
800364	660/2-75-009
800365	660/3-75-013
800369	660/3-73-009
800371	600/3-76-022
800372	600/3-76-023
800373	660/3-74-016
800384	600/1-76-008
800397	650/4-74-032
800397	650/4-74-045a
800397	650/4-74-045b
800398	600/3-76-070
800399-06-01	600/3-76-064
800400	660/2-74-005
800401	660/2-74-033
800426	600/2-76-019
800426	660/2-74-049
800428	600/3-76-042
800430	600/3-76-063
800431-03-0	600/3-76-103
800432	670/2-75-033a
800432	670/2-75-033b
800432	670/2-75-033c
800432	670/2-75-033d
800435	660/3-75-014
800504	660/3-75-027
800510	600/3-76-060
800510	660/3-73-022
800536	660/3-75-021
800537-02	600/3-76-094a

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GRANTS	
800602	670/2-74-030
800605	660/3-75-004
800608	660/3-75-022
800609	660/3-75-006
800610	600/3-76-065
800610	660/3-75-005
800613	660/2-73-012
800613	660/2-74-085
800613	660/3-75-002
800613	660/3-75-038
800625	600/2-76-193
800650	670/2-74-013
800650	670/2-75-056
800652	670/2-74-015
800655	600/3-76-089
800662	600/4-75-004
800662	650/4-75-015
800674	670/5-74-004
800677	650/3-75-003
800678	660/2-74-003
800680	660/2-73-024
800685	670/2-73-060
800688	670/2-75-031
800700	600/3-76-009
800701	600/3-76-115
800704	660/3-75-017
800707	670/2-73-022
800731	660/2-75-008
800736	660/3-74-025
800745	670/2-74-070
800746	660/2-74-046
800747	660/2-74-025
800766	660/2-75-021
800766	670/2-74-016
800767	600/2-76-187
800767	600/2-76-190
800767	660/2-74-063
800769	670/2-74-075
800778	660/3-74-028
800781	600/2-75-023
800786	670/2-75-040
800798	600/2-75-019
800818	600/3-76-101
800833	600/3-76-108
800842	650/2-74-011
800845	650/3-75-006
800852	600/2-76-139
GRANTS	
800853	660/2-74-029
800854	600/8-76-001a
800854	600/8-76-001b
800854	660/2-74-071
800857	600/2-74-009a
800857	600/2-74-009b
800857	600/2-74-009c
800863	600/2-76-186
800866	650/2-73-011
800869	650/2-75-067
800897	600/2-75-063
800904	660/2-74-061
800909	660/2-74-004
800916	650/3-75-011
800921	660/2-74-048
800923	660/2-75-013
800929	600/2-76-060
800935	660/2-74-074
800938	670/2-75-030
800940	600/3-76-061a
800940	600/3-76-061b
800941	670/2-75-046
800943	660/2-74-053
800944-02-0	600/3-76-086
800945-01	600/2-76-261
800949	650/3-75-008
800950	650/2-74-095
800966	670/2-74-049
800984	600/3-76-024
800989	660/3-74-027
800991	660/2-74-079
800992	600/3-76-062a
800992	600/3-76-062b
800994	660/3-74-033
800997	660/2-73-002
801000	600/5-74-022
801003	660/3-75-003
801028	600/2-76-302
801029	660/2-73-027
801030	600/2-76-220
801035-01	600/3-76-036
801036	660/3-74-007
801039	660/3-73-018
801040	660/2-75-005
801041	600/2-75-072
801062	660/3-74-029
801065	660/2-74-090

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PROJECT NO.	REPORT NO.
801078	600/2-76-225
801102	600/4-76-002
801106	600/4-76-046
801113	650/4-75-012
801119	600/3-76-093
801120	650/4-74-004
801124-03	660/3-75-026
801125	600/2-76-240
801128-02-2	600/3-76-007
801136	650/3-74-006
801159	670/2-74-057
801174	600/3-76-085
801174	650/3-74-011
801178	600/3-76-004
801187	600/2-76-158
801192	600/2-75-055
801206	600/2-76-232
801207	660/2-73-030
801209	600/3-76-068
801226	600/5-74-027
801234	600/5-74-011
801236	670/2-75-006
801245	600/3-76-106
801273	600/2-76-128
801276	600/2-76-108
801282	670/2-74-076a
801282	670/2-74-076b
801289	670/2-74-035a
801289	670/2-74-035b
801289	670/2-74-036a
801289	670/2-74-036b
801303	670/2-73-091
801321	650/2-73-020
801336	650/2-75-036
801340	650/3-74-007
801342	670/2-74-031
801343	660/3-74-020
801349	670/2-75-016
801353	600/2-76-110
801361	660/3-73-023
801362	660/3-73-024
801363	660/3-75-033
801374	600/5-73-016
801376	600/5-73-015
801381	660/3-75-030
801387	600/3-76-081
801393	650/1-74-010
801397	600/2-75-043
801399-02	600/2-76-020
801400	660/2-75-007
801411	600/5-74-020
801417	660/2-74-077
801419	600/5-75-003
801431	600/2-76-227
801432	660/2-75-001
801441	600/2-76-204
801446	650/2-74-007
801454	660/2-75-003
801454-01	660/2-74-024
801454-03	600/2-76-189
801470	650/1-74-012
801473	600/5-73-012a
801473	600/5-73-012b
801473	600/5-73-012c
801473	600/5-73-012d
801473	600/5-73-012e
801481	600/5-74-029
801484	660/2-74-006
801490	650/2-73-014
801500	600/5-74-024
801521	600/5-73-007
801522	600/5-73-011
801577	660/2-74-094
801581-02-2	600/2-76-132
801603	650/2-74-063
801615	650/2-74-027
801622	670/2-75-034
801628	600/2-74-005
801630	670/2-74-094
801633	670/2-75-026a
801633	670/2-75-026b
801647	660/2-74-034
801650	650/1-74-011
801658	670/2-73-043
801662	660/2-74-064
801666	660/2-74-068
801673	600/5-75-010
801677	670/2-74-024A
801678	670/2-74-024B
801684	660/2-74-075
801799	670/2-75-061
801799	670/2-75-062
801799	670/2-75-063
801799	670/2-75-064

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GRANTS	
801800	600/1-76-003
801830	670/2-74-073
801835	660/2-74-054
801837	600/1-76-004
801867	660/2-75-027
801870	670/5-74-007
801870	670/5-74-008
801870	670/5-74-009
801872	670/2-75-043
801876	660/2-74-044
801944	670/2-75-032
801945	650/4-74-041
801976	600/3-76-113
802003	600/2-75-031
802005	650/1-74-002
802009	600/2-76-239
802009-01	660/2-74-023
802022	600/1-76-002
802032	660/2-74-011
802043	650/1-75-003
802084	660/2-75-028
802111	600/2-76-063
802113	670/2-75-055
802168	660/2-75-026
802174	660/2-75-019
802196	600/2-76-194
802203	600/2-76-233
802204	600/2-75-075
802205	660/2-75-012
802210	600/3-76-051
802214	600/3-76-073
802219	670/2-74-026
802219	670/2-75-022
802254	670/2-73-104
802254	670/2-74-008
802269	650/2-74-080
802270	650/2-74-051
802291	650/2-74-048
802292	600/2-76-156
802309	600/2-76-082
802310	600/2-75-007
802348	660/3-75-015
802359	600/3-76-020
802366	650/2-75-012
802396	600/2-76-021
802400	670/2-75-021
802402	650/2-74-032

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GRANTS	
802411	600/2-76-275
802411	670/2-75-017
802419-01	650/2-74-096
802423	600/5-75-008
802424	600/2-75-025
802433	600/2-76-244
802441	600/5-73-009
802443	600/5-75-005
802443	600/5-75-009
802444	600/5-74-021
802459	600/3-76-038
802464	600/3-76-044
802475	670/2-74-054
802495	670/4-74-005
802499-01	650/2-75-023
802500	600/1-76-032
802526	600/2-76-183
802532	600/2-76-188
802575	600/5-75-017
802586	660/2-75-016
802603-01	600/2-76-184
802614	670/2-74-023
802621	670/2-75-048
802633	600/3-76-027
802637	670/2-75-015
802647	600/3-75-005
802670	600/3-76-059
802679-01	600/3-76-074
802682	600/2-76-196
802684	600/2-76-045
802716	670/2-75-041
802726	650/2-75-043
802730	600/2-76-147
802753	600/2-76-017
802755-01	600/4-76-020
802781	600/2-75-033
802806	600/2-76-291
802816	600/2-76-206
802821	600/3-76-095
802836	600/5-75-018
802853-01-0	600/2-76-024
802864	600/2-76-226
802872	600/2-76-213a
802872	600/2-76-213b
802872	600/2-76-213c
802926	600/2-74-008
802933	600/2-76-238

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GRANTS	
802946	600/2-76-163
802966-01	600/3-76-012
802980-01	660/4-75-002
803006-01-1	600/4-76-005
803021	660/2-75-010
803026	660/2-75-025
803046-01	600/2-75-005
803049-01	600/5-75-016
803055-01-0	600/2-75-058
803056	600/5-75-012
803063	600/2-76-113
803063	600/2-76-129
803063	670/2-75-044
803063	670/2-75-059
803063-01	670/2-75-003
803069	670/2-75-065
803075	600/3-76-084
803099	600/2-76-104
803107-01	600/9-75-006
803111	670/2-75-058
803116-01-0	600/2-76-043
803119	600/2-76-221
803126-01	600/2-76-192
803172	600/4-76-048
803186	600/3-76-075
803194-01-4	600/2-76-285
803207-01	600/2-76-178
803226-01	670/2-75-029
803264-01-0	600/2-76-197
803278	600/2-76-100
803283	600/7-76-012
803283-01	600/2-76-274
803294	670/9-75-004
803307	600/2-76-253
803315-01-0	600/3-76-083
803342-01	600/2-76-296
803362-01	600/5-76-009
803378	600/2-76-292
803477	600/2-76-219
803514	600/4-76-039
803517-01-0	600/4-76-061
803540-01-0	600/2-76-299
803546	600/9-75-007
803556-01	600/2-75-059
803590	600/9-76-007a
803619	600/2-76-267
803623	600/2-76-293
803632	600/4-76-058
803653-01	600/7-76-026
803663	600/9-76-004
803729	600/9-75-005
803760	600/2-76-301
803771	600/2-76-287
803794	600/2-76-207
803992	600/2-76-215
803992	600/2-76-266
803992-01	600/2-76-185
804002	600/2-76-290
804330	600/9-76-015
820529-01	600/3-75-007
INTER-AGENCY	
IAG D4-F451	660/2-75-018
IAG D4-0446	660/2-75-015
IAG D4-0528	600/2-76-007
IAG D4-509	600/1-76-006
IAG 40-191-69	600/2-76-025
IAG-D4-F399	600/2-75-064
IAG-D4-0040	600/2-76-026
IAG-D4-0344	600/4-75-002
IAG-D4-0377	650/2-75-048
IAG-D4-0439	600/1-76-016
IAG-D4-0454	650/2-75-011
IAG-D4-0501	600/2-76-075
IAG-D4-0537	600/1-76-038
IAG-D4-0569	600/2-76-182
IAG-D5-E681	600/7-76-007
IAG-D5-E681	600/7-76-019
IAG-D5-E721	600/7-76-005
IAG-D5-E721	600/7-76-020
IAG-D5-F468	600/2-76-237
IAG-D5-F694	600/2-76-250
IAG-D5-F765	600/3-76-111
IAG-D5-0416	600/3-76-031
IAG-D5-0416	600/3-76-032
IAG-D5-0721	600/7-76-021
IAG-D6-F344	600/2-76-265
IAG-P5-0685	600/2-76-091
IAG-0153(D)	600/3-75-013
IAG-0153D	600/3-76-076
IAG-0155	600/3-76-056
IAG-069	600/3-76-010
IAG-097(D)	650/2-75-014
IAG-100(D)	600/2-76-126
IAG-133-D	600/2-76-068a

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INTER-AGENCY			
IAG-133-D	600/2-76-068b		
IAG-134(D)	600/2-75-006		
IAG-141(D)	660/3-75-011		
IAG-148	600/5-75-013		
IAG-148(D)	600/5-75-002		
IAG-151-D	600/9-75-009a		
IAG-151-D	600/9-75-009a-d		
IAG-151-D	600/9-75-009b		
IAG-151-D	600/9-75-009c		
IAG-151-D	600/9-75-009d		
IAG-152(D)	660/3-75-010		
IAG-323	650/3-74-005		
IAG0020(D)	650/2-74-038		
IAG0077(D)	650/2-74-113		
IAG0085(D)	650/2-73-006		
IAG0134(D)	650/2-73-051		
IAG0139(D)	650/2-74-070		
IAG0149(D)	650/2-74-104		
IAG0177(D)	650/2-73-034		
IAG0199(D)	650/2-74-057		
IAG0215	650/2-74-125		
IAG085(D)	650/2-75-004		
IAG31990A	650/2-74-049a		
IAG4H374(D)	600/5-74-031		
IAG40377(D)	650/4-74-030		
PL-480:5-533-3	600/2-76-074		
TV-30541A	650/2-73-019a		
TV-30541A	650/2-73-019b		
TV-30541A	650/2-73-019c		